

EPA Registration # 2749-586

NOTE: A change may be necessary before taking further actions on this label. Acceptable notification letter includes this paragraph:

When reviewing your label for this notification, we noticed a section with the heading "Precautions." We strongly suggest amending this heading or the content of the section when submitting further actions on the label. The word "precautions" has connotations that do not seem appropriate in conjunction with the content of this section. Labels frequently include a "Use Precautions" section, and we suggest changing the heading to match this convention or choosing a title that better describes the statements it contains. We also suggest changing the section titled "Restrictions" to "Use Restrictions," which is a common heading for this subsection under "Directions for Use."

PROCESSING REQUEST

Reg # ~~700~~ 2749-586 Decision # 551736

Description: Acceptable labeling notification

Electronic Label & Letter
(see PPLS):

OR

Non Electronic
Label & Letter
(Scanning required):

☒ Dated: 6/27/19

☐ Dated:

Only one label type should be selected

Other Materials Sent (see jacket):

☐ New CSF(s) Dated:

☐ Other:

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: Anna O'Neil

Division: BPPD

Phone: 703-347-8274

Date: 6/27/19



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 21, 2019

John F. Wright
Authorized Representative
Aceto Agricultural Chemicals Corporation
4 Tri Harbor Court
Port Washington, NY 11052

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 – Acceptable
Notification to Correct a Typographical Error
Product Name: DMN EUP
EPA Registration Number: 2749-586
Application Date: 06/06/2019
OPP Decision Number: 551736

Dear Mr. Wright:

The U.S. Environmental Protection Agency (EPA) is in receipt of your application for notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Biopesticides and Pollution Prevention Division (BPPD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The labeling submitted with this application has been stamped "Notification" and will be placed in our records. You must submit one (1) copy of the final printed labeling with the modifications.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

When reviewing your label for this notification, we noticed a section with the heading "Precautions." We strongly suggest amending this heading or the content of the section when submitting further actions

Page 2 of 2
EPA Reg. No. 2749-586
OPP Decision No. 551736

on the label. The word “precautions” has connotations that do not seem appropriate in conjunction with the content of this section. Labels frequently include a “Use Precautions” section, and we suggest changing the heading to match this convention or choosing a title that better describes the statements it contains. We also suggest changing the section titled “Restrictions” to “Use Restrictions,” which is a common heading for this subsection under “Directions for Use.”

If you have any questions, please contact Anna O’Neil of my team by phone at (703) 347-8274 or via email at oneil.anna@epa.gov.

Sincerely,

A handwritten signature in black ink, reading "Andrew C. Bryceland". The signature is fluid and cursive, with the first name "Andrew" and last name "Bryceland" clearly distinguishable.

Andrew Bryceland, Team Leader
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosure

DMN EUP

[Alternate Brand name Aceto DMN]

Plant Growth Regulator
For use on Potato; Seed Potato as
Dormancy Enhancer

NOTIFICATION

2749-586

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

06/21/2019

ACTIVE INGREDIENT:	% w/w
1,4-dimethylnaphthalene:*	97.64%
OTHER INGREDIENTS:	2.36%
TOTAL	100.0%

*Contains 8.3 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL CHEMTREC TOLL FREE 1-800-424-9300 or 1-703-527-3887.	

EPA Reg. No. 2749-586LIA
EPA Est. No. XXXXXX-XX-XXX

MANUFACTURED FOR:
Aceto Agricultural Chemicals Corporation
4 Tri Harbor Court
Port Washington, NY 11050

See [attached][enclosed] [inside] [outside carton] [booklet] for [First Aid,] [additional] Precautionary Statements and Directions for Use.

NET CONTENTS: X gallons

002749-00LIA.20190514.Proposed DMN EUP

Page 1

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING. Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, use tobacco or using the toilet. Remove and wash contaminated clothing before uses.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as butyl rubber or nitrile rubber
- Shoes plus socks
- Protective eyewear (goggles or face shield)
- Respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses: This product is highly toxic to fresh water fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers maybe in the area during application. For any requirement specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulations.

PRODUCT INFORMATION

This product is a plant growth regulator used as an aerosol fog to enhance the dormancy of potatoes; seed potatoes prior to germination or during storage phase.

RESTRICTIONS

Do not apply this product to potatoes in the field.

002749-00LIA.20190514.Proposed DMN EUP

Page 2

Do not allow vapors to come in contact with storage areas used for seed potatoes within 30 days of their planting.

PRECAUTIONS

This product may be applied any time after the potatoes are placed into the storage area.

This product is a short term dormancy enhancer which should not adversely affect eventual germination of seed potatoes held for future planting.

For seed potatoes, allow 60 days elapse before using a treated storage area as a temporary holding area. Air system components (including ducts) and building must be thoroughly ventilated before area is used for storage of seed potatoes to prevent dormancy effects.

This product is for use on potatoes; seed potatoes.

FORCED AIR DISTRIBUTION METHOD

1. Set up aerosol fogging equipment to provide optimum distribution of aerosol fog in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes.
2. During the application, run fans to aid disbursement of fog, but it is not required.
3. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes.

TREATMENT OF STORAGE AREAS THAT DO NOT HAVE RECIRCULATING AIR SYSTEMS

These storage areas are more difficult to treat. Additional steps must be taken to treat these storage areas.

1. Set up aerosol fogging equipment to provide optimum distribution of aerosol fog in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes.
2. Completely close off the area to be treated. This may include vent doors in the attic and walk doors around the perimeter. The large truck doors may need to be sealed to prevent excess leakage.
3. Begin the treatment by following the listed steps:
 - a. Start the aerosol fogging equipment.
 - b. Adjust the location of the aerosol fog equipment so all the storage area receives an equal amount of aerosol fog. It may be necessary to move the aerosol fog generator during the application or make the application in multiple phases. For reentry into treated areas during application and prior to ventilation or settling of the aerosol fog, see the AGRICULTURAL USE REQUIREMENT PERSONAL PROTECTIVE EQUIPMENT(PPE) section.
4. Wait at least 12 hours before fresh air is introduced into the storage area, then return the storage area to "normal" operation.
5. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes.

TREATMENT in SMALL CONTAINER

1. Set up application equipment to provide optimum distribution of applicator in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes.
2. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes.

APPLICATION TIMING AND RATES

This product may be applied any time after the potatoes are placed into the storage area.

1. Apply at rates of up to 1 pound of active ingredient per 50,000 lbs. (500 cwt), which is equivalent to 20 ppm on a product to crop basis or 1 gallon per 4,000 cwt.
2. While potatoes may be retreated as necessary for effective control, do not exceed the maximum application of 80 ppm during the storage season.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Keep out of reach of children and animals. Store in closed, original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of at an approved waste disposal facility.

[Metal Containers less than 5 Gallons.]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into formulating equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over formulating equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. If rinsate cannot be used, follow pesticide disposal instructions. If not triples rinsed or pressure rinsed (or equivalent), these containers may be hazardous waste and must be disposed in accordance with local, state and federal regulations. DO NOT cut or weld metal containers. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures allowed by state and local authorities.

[Metal Containers greater than 5 Gallons.]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into formulating equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over formulating equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. If rinsate cannot be used, follow pesticide disposal instructions. If not triples rinsed or pressure rinsed (or equivalent), these containers may be hazardous waste and must be disposed in accordance with local, state and federal regulations. DO NOT cut or weld metal containers. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures allowed by state and local authorities.

WARRANTY DISCLAIMER AND NOTICE

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Aceto Agricultural Chemicals Corporation. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, ACETO AGRICULTURAL CHEMICALS CORPORATION MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Aceto Agricultural Chemicals Corporation is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, ACETO AGRICULTURAL CHEMICALS CORPORATION DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT ACETO AGRICULTURAL CHEMICALS CORPORATION'S ELECTION, THE REPLACEMENT OF PRODUCT.

Batch Code: _____

CHEMTREC is a registered trademark of the American Chemical Society.

All trademarks are proprietary of their respective owners.

Made in China [packaged in USA].

[Active ingredient made [and formulated] in [Japan][China], [formulated in USA] [and] [package in USA]].

Product & Regulatory Associates, L.L.C.

June 5, 2019

CDX/PSP

Ms. Menyon Adams
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: **DMN EUP**
EPA File Symbol 2749-586
Notification of Typographical Error under Section II N. Other

PRIA Milestone Tracking E-mail Notification: jwrightch@comcast.net

Dear Ms. Adams:

On behalf of Aceto Agricultural Chemicals Corporation, I am transmitting this notification application for pesticide registration of DMN EUP to the U.S. Environmental Protection Agency.

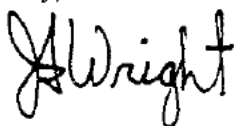
As a follow-up to our call on June 5, 2019, you indicated the typographical error on page 3 with the incorrect reference could be rectified via the notification process under PR Notice 98-10 section II N Other. Both a highlighted and clean copies of the label are provided to assist in your review.

The registration application request contains the following enclosed materials:

- Application for Pesticide Registration (EPA Form 8750-1)
- Cover letter
- Aceto Authorized Representative letter
- 002749-00586.20190603.Notification DMN EUP Highlighted. Pdf
- 002749-00586.20190603.Notification DMN EUP Clean Copy. pdf

If you have any question in regard to this mater, feel free to contact me at (609) 841-8288 or JWrightCH@comcast.net.

Sincerely,



John F. Wright
Authorized Representative of Aceto Agricultural Chemicals Corporation
cc: Terry Kippley, Aceto

8595 Collier Blvd.

Suite 107-51
Telephone: 609.841.8288

Naples, FL 34114

DOCUMENTUM



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 2749-586	2. EPA Product Manager Andrew Bryceland	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) DMN EUP	PM#	
5. Name and Address of Applicant (Include ZIP Code) Aceto Agricultural Chemicals Corporation 4 Tri Harbor Court Port Washington, NY 11052 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of label changes relative to PR Notice 98-10, II N other. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.10 and 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the guidance of PR Notice 98-10 and the requirements of 40 CFR 152.10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input checked="" type="checkbox"/> On container	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name John F. Wright	Title Authorized Representative Aceto	Telephone No. (Include Area Code) 609.841.8288	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 	3. Title Authorized Representative Aceto Agricultural Chemicals Corp		
4. Typed Name John F. Wright	5. Date June 5, 2019		

O'Neil, Anna

From: John Wright <jwrightch@comcast.net>
Sent: Monday, June 24, 2019 8:52 AM
To: O'Neil, Anna
Subject: RE: Label request for EPA Reg No 2749-586

Thanks

We will make the change on the next regulatory submission.

From: O'Neil, Anna <oneil.anna@epa.gov>
Sent: Monday, June 24, 2019 8:30 AM
To: John Wright <jwrightch@comcast.net>
Subject: RE: Label request for EPA Reg No 2749-586

Good morning John,

Attached is an acceptable notification letter for EPA Reg. No. 2749-586. Please note that while we deemed this change to be acceptable under the notification process, we still have some concerns about the "precautions" section and ask that a change be considered in the future. The letter includes a paragraph to this effect, and I would be happy to answer any questions you have about it.

Best,
Anna

From: John Wright <jwrightch@comcast.net>
Sent: Wednesday, June 19, 2019 1:25 PM
To: O'Neil, Anna <oneil.anna@epa.gov>
Subject: RE: Label request for EPA Reg No 2749-586

There is no specific guidance document but Aceto, over the past several years has being requested to put in to separate sections, the restriction vs precaution statements in the use directions.

Examples are:

EPA Reg. No. 2749-530 with Bewanda Alexander and Erik Kraft PM 24, Page 5

EPA Reg. No. 2749-561 with Terri Stowe and Kathryn Montague PM 25 Page 12

EPA Reg. No. 2749-528 Shanta Adeeb and Ruben Baris PM 25, Page 7 & 8 (too large a file to attach)

EPA Reg. No. 2749-582 Matthew Sellner and Richard Gebken PM 10, Page 7 & 8.

I have other clients where I can pull up examples like these. The basic concept was to separate restriction from precautions and put them in two separate section up front in the use directions.

Let me know if this helps here.

Thanks

From: O'Neil, Anna <oneil.anna@epa.gov>

Sent: Tuesday, June 18, 2019 3:34 PM

To: John Wright <jwrightch@comcast.net>

Subject: RE: Label request for EPA Reg No 2749-586

Hi John,

Just following up. The consensus here in BPPD is that we do not want a section header to include the word "precaution" if it is separate from "precautionary statements," but if you have a source for the guidance you received from RD, we can confer with them to ensure our guidance is consistent with what they have been communicating.

Thanks,

Anna

From: O'Neil, Anna

Sent: Friday, June 14, 2019 1:50 PM

To: John Wright <jwrightch@comcast.net>

Subject: RE: Label request for EPA Reg No 2749-586

John,

Thank you for your email. Can you tell me from where/whom this guidance came in RD? I will talk with my managers to clarify our position on this and get back to you next week.

Anna

From: John Wright <jwrightch@comcast.net>

Sent: Friday, June 14, 2019 12:40 PM

To: O'Neil, Anna <oneil.anna@epa.gov>

Subject: RE: Label request for EPA Reg No 2749-586

The comment below seem inconsistent with what RD has us doing with labels recently where we had to reformat to make two specific sections on for restrictions and precautions on label.

When is goodtime to call to discuss?

From: O'Neil, Anna <oneil.anna@epa.gov>

Sent: Thursday, June 13, 2019 4:09 PM

To: John Wright <jwrightch@comcast.net>

Subject: Label request for EPA Reg No 2749-586

Good afternoon John,

I am in the process of reviewing your notification recently submitted for EPA Reg. No. 2749-586 and am requesting that you make a change to another part of the label.

There is a section on page 3 with the heading "precautions." EPA asks that labels not include words like "precaution" outside of the "precautionary statements" heading to avoid confusion. What you put in place of "precautions" is up to you, but it should not include a signal word like precaution, warning, or advisement. One suggestion is "additional information."

To make this change without submitting another notification or amendment, you can send me a new, highlighted pdf copy of your label with both proposed changes and I will review them as one notification. If you first email me about your proposed alternative to "precautions." I can check whether it will be accepted as part of the notification.

Please let me know if you have any questions.

Thank you,
Anna

Anna O'Neil

Risk Manager

Biochemical Pesticides Branch (BPB)

Biopesticides and Pollution Prevention Division (BPPD)

Office of Pesticide Programs

U.S. Environmental Protection Agency

anna.oneil@epa.gov

(703) 347- 8274 (phone)

<http://www.epa.gov/pesticides/>

PROCESSING REQUEST

Reg # 2749-586 Decision # 540337

Description: New Product Registration

Electronic Label & Letter
(see PPLS):

OR

Non Electronic
Label & Letter
(Scanning required):

☒ Dated: 03/30/18 ☐ Dated: 05/29/19
05/29/19 MK4
Only one label type should be selected

Other Materials Sent (see jacket):

☒ New CSF(s) Dated: 03/30/18

☐ Other:

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer:

Division:

Phone:

Date: 05/29/19



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

2749-586

Date of Issuance:

5/29/2019

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

DMN EUP

Name and Address of Registrant (include ZIP Code):

Aceto Agricultural Chemicals Corporation
4 Tri Harbor Court
Port Washington, NY 11050

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act).

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when the EPA requires all registrants of similar products to submit such data.
2. Submit storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) data as these data requirements are not satisfied. A one-year study is required to satisfy these data requirements. You have 18 months from the date of this registration to provide these data to the EPA.

Signature of Approving Official:

Andrew Bryceland, Team Leader
Biochemicals Pesticides Branch
Biopesticides and Pollution Prevention Division (7511P)
Office of Pesticide Programs

Date:

5/29/2019

3. Make the following labeling change before you release this product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 2749-586."
4. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statement of Formula (CSF):

- Basic CSF dated 03/30/2018

Any CSFs other than those listed above are superseded.

If you have any questions, please contact Menyon Adams of my team by phone at (703) 347-8496 or via email at adams.menyon@epa.gov.

Sincerely,



Andrew Bryceland, Team Leader
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosure

DMN EUP

[Alternate Brand name Aceto DMN]

Plant Growth Regulator
For use on Potato; Seed Potato as
Dormancy Enhancer

ACCEPTED

05/29/2019

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 2749-586

ACTIVE INGREDIENT:	% w/w
1,4-dimethylnaphthalene:*	97.64%
OTHER INGREDIENTS:	2.36%
TOTAL	100.0%

*Contains 8.3 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL CHEMTREC TOLL FREE 1-800-424-9300 or 1-703-527-3887.	

EPA Reg. No. 2749-LIA
EPA Est. No. XXXXXX-XX-XXX

MANUFACTURED FOR:
Aceto Agricultural Chemicals Corporation
4 Tri Harbor Court
Port Washington, NY 11050

See [attached][enclosed] [inside] [outside carton] [booklet] for [First Aid,] [additional] Precautionary Statements and Directions for Use.

NET CONTENTS: X gallons

002749-00LIA.20190514.Proposed DMN EUP

Page 1

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING. Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, use tobacco or using the toilet. Remove and wash contaminated clothing before uses.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as butyl rubber or nitrile rubber
- Shoes plus socks
- Protective eyewear (goggles or face shield)
- Respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses: This product is highly toxic to fresh water fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulations.

PRODUCT INFORMATION

This product is a plant growth regulator used as an aerosol fog to enhance the dormancy of potatoes; seed potatoes prior to germination or during storage phase.

RESTRICTIONS

Do not apply this product to potatoes in the field.

002749-00LIA.20190514.Proposed DMN EUP

Page 2

Do not allow vapors to come in contact with storage areas used for seed potatoes within 30 days of their planting.

PRECAUTIONS

This product may be applied any time after the potatoes are placed into the storage area.

This product is a short term dormancy enhancer which should not adversely affect eventual germination of seed potatoes held for future planting.

For seed potatoes, allow 60 days elapse before using a treated storage area as a temporary holding area. Air system components (including ducts) and building must be thoroughly ventilated before area is used for storage of seed potatoes to prevent dormancy effects.

This product is for use on potatoes; seed potatoes.

FORCED AIR DISTRIBUTION METHOD

1. Set up aerosol fogging equipment to provide optimum distribution of aerosol fog in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes.
2. During the application, run fans to aid disbursement of fog, but it is not required.
3. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes.

TREATMENT OF STORAGE AREAS THAT DO NOT HAVE RECIRCULATING AIR SYSTEMS

These storage areas are more difficult to treat. Additional steps must be taken to treat these storage areas.

1. Set up aerosol fogging equipment to provide optimum distribution of aerosol fog in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes.
2. Completely close off the area to be treated. This may include vent doors in the attic and walk doors around the perimeter. The large truck doors may need to be sealed to prevent excess leakage.
3. Begin the treatment by following the listed steps:
 - a. Start the aerosol fogging equipment.
 - b. Adjust the location of the aerosol fog equipment so all the storage area receives an equal amount of aerosol fog. It may be necessary to move the aerosol fog generator during the application or make the application in multiple phases. For reentry into treated areas during application and prior to ventilation or settling of the aerosol fog, see the AGRICULTURAL USE REQUIREMENT section.
4. Wait at least 12 hours before fresh air is introduced into the storage area, then return the storage area to "normal" operation.
5. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes.

TREATMENT in SMALL CONTAINER

1. Set up application equipment to provide optimum distribution of applicator in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes.
2. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes.

APPLICATION TIMING AND RATES

This product may be applied any time after the potatoes are placed into the storage area.

1. Apply at rates of up to 1 pound of active ingredient per 50,000 lbs. (500 cwt), which is equivalent to 20 ppm on a product to crop basis or 1 gallon per 4,000 cwt.
2. While potatoes may be retreated as necessary for effective control, do not exceed the maximum application of 80 ppm during the storage season.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Keep out of reach of children and animals. Store in closed, original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of at an approved waste disposal facility.

[Metal Containers less than 5 Gallons.]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into formulating equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over formulating equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. If rinsate cannot be used, follow pesticide disposal instructions. If not triples rinsed or pressure rinsed (or equivalent), these containers may be hazardous waste and must be disposed in accordance with local, state and federal regulations. DO NOT cut or weld metal containers. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures allowed by state and local authorities.

[Metal Containers greater than 5 Gallons.]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into formulating equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over formulating equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. If rinsate cannot be used, follow pesticide disposal instructions. If not triples rinsed or pressure rinsed (or equivalent), these containers may be hazardous waste and must be disposed in accordance with local, state and federal regulations. DO NOT cut or weld metal containers. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures allowed by state and local authorities.

WARRANTY DISCLAIMER AND NOTICE

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Aceto Agricultural Chemicals Corporation. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, ACETO AGRICULTURAL CHEMICALS CORPORATION MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Aceto Agricultural Chemicals Corporation is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, ACETO AGRICULTURAL CHEMICALS CORPORATION DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT ACETO AGRICULTURAL CHEMICALS CORPORATION'S ELECTION, THE REPLACEMENT OF PRODUCT.

Batch Code: _____

CHEMTREC is a registered trademark of the American Chemical Society.

All trademarks are proprietary of their respective owners.

Made in China [packaged in USA].

[Active ingredient made [and formulated] in [Japan][China], [formulated in USA] [and] [package in USA]].



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MEMORANDUM

DATE: March 26, 2019

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

SUBJECT: Risk Assessment for FIFRA Section 3 Registration of the Plant Growth Regulator, 1,4-dimethylnaphthalene (1,4-DMN) (TGAI) and End Use Product DMN EUP containing 97.64% 1,4- dimethylnaphthalene.

Decision Number:	540336, 540337
DP Number:	447035, 447038
Submission Number:	1018183, 1018185
EPA File Symbol Number:	2749-LIL, 2749-LIA
Active Ingredient Type:	Biochemical
PC Code:	055802
CAS Number:	571-58-4
Active Ingredient Tolerance/Exemption:	40 CFR §180.1142
MRID Numbers:	43082507 - 43082518; 43266803; 43594501
PRIA Code:	B672

FROM: Judy Facey, Ph.D., Toxicologist
Risk Assessment Branch
Biopesticides & Pollution Prevention Division (7511P)

JUDY FACEY
Digitally signed by JUDY FACEY
Date: 2019.03.26 10:04:51
-04'00'

THROUGH: Cathy Eiden, Senior Advisor
Risk Assessment Branch
Biopesticides & Pollution Prevention Division (7511P)

Eiden,
Catherine
Digitally signed by
Eiden, Catherine
Date: 2019.03.26
11:00:55 -04'00'

TO: Menyon Adams, Regulatory Action Leader
Biochemical Pesticides Branch
Biopesticides & Pollution Prevention Division (7511P)

ACTION REQUESTED

On behalf of Aceto Agricultural Chemicals Corporation, Product and Regulatory Associates, LLC, has applied for the registration of a new unregistered source of the technical grade active ingredient 1,4-dimethylnaphthalene (1,4-DMN) 97.64% (EPA File Symbol: 2749-LIL) and an end-use product (EP) DMN EUP (EPA File Symbol: 2749-LIA). In support of the registration, the applicant submitted proposed labels, Confidential Statements of Formula (CSF) dated 03-30-2018, a data matrix dated 04-03-2018, and product chemistry and human health assessment data information.

EXECUTIVE SUMMARY

1,4- dimethylnaphthalene technical is intended for formulation into a plant growth regulator for use on post-harvest potatoes during storage or for use on seed potatoes. BPPD has reviewed and evaluated the submitted data for the registration of the unregistered source of 1,4- dimethylnaphthalene, DMN TECHNICAL (EPA File Symbol: 2749-LIL) and the end use product, DMN EUP (EPA File Symbol: 2749-LIA). All data requirements have been met.

BACKGROUND

Biopesticide Use Pattern

Aceto Agricultural Chemicals Corporation is registering the biochemical technical grade active ingredient (TGAI) product DMN TECHNICAL, which is substantially similar to the EPA registered TGAI product 1,4Sight® Technical (EPA Reg. No. 67727-2), containing the active ingredient 1,4 dimethylnaphthalene. The TGAI is intended for use in the formulation into a plant growth regulator for use on post-harvest potatoes during storage or use on seed potatoes. The end-use product (DMN EUP) is a plant growth regulator used as an aerosol fog to enhance the dormancy of [seed] potatoes [(and other root and tuber crops, bulb crops, and ornamental flowering bulbs)] [prior to germination] [or] [during storage phase]. Personal Protective Equipment (PPE) requirements are listed on the label; there are no residential uses. The product is applied at a rate of 1 lb of active ingredient per 50,000 lbs (500 cwt). All proposed uses are indoor and /or contained, thus eliminating the potential for exposure to terrestrial and aquatic environments.

1. STUDY SUMMARIES

Confidential Statement of Formula (CSF)

The nominal concentrations and certified limits are listed in Table 1 (see CONFIDENTIAL APPENDIX) for the ingredients in DMN TECHNICAL (EPA File Symbol: 2749-LIL).

Active Ingredient Characterization

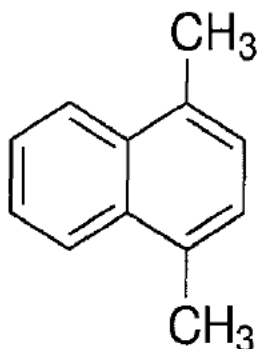
The active ingredient (1,4- DMN) is a plant growth regulator which works via suppression of sprout formation and is applied to potatoes during storage and shipping. 1,4- DMN provides short-term suppression of sprouting. 1,4- DMN is a plant growth regulator belonging to the chemical family of alkyl-substituted naphthalenes. This compound is a naturally occurring plant biochemical in potatoes at high enough concentrations to prevent sprouting; however, under suitable conditions there is a decrease of the chemical in potatoes and spouting occurs (1,4 Dimethylnaphthalene Fact Sheet, 2001). The manufacturing process for 1,4-DMN TECHNICAL is a one-step batch process. The final 1,4- DMN TECHNICAL product is verified by analysis. All product chemistry data requirements have been satisfied for the sources of the active ingredients. The applicant cited acceptable MRIDs on the data matrix for all requirements.

Physical and Chemical Characteristics

1, 4- dimethylnaphthalene (1,4-DMN)
 PC Code: 055802
 Type of Review: B672, New unregistered source of A.I. and EUP

DP Number: 447035, 447038
 EPA File Symbol: 2749-LIL, 2749-LIA

Technical Name: Naphthalene, 1,4-dimethyl-
 Common Name: 1,4-Dimethylnaphthalene (1,4- DMN)
 Molecular Formula: C₁₂H₁₂
 Molecular Weight: 156.33



Chemical Structure of 1,4-Dimethylnaphthalene (1,4-DMN): MRID 50565401

A. Product Chemistry (Technical Product and End-Use Product)

Apart from the storage stability and corrosion characteristics data requirements (studies not submitted), all product chemistry data requirements have been satisfied for the proposed TGA1 product and End-use product. The applicant cited acceptable MRIDs on the data matrix for all requirements. Refer to Tables 1 and 2 below for a summary of the product chemistry data (Table 1) and physical and chemical characteristics data (Table 2) submitted to support the product chemistry data requirements.

Table 1. Product Chemistry Data Requirements for DMN TECHNICAL (EPA File Symbol#: 2749-LIL)		
OCSPP Guideline Reference No./Study	Description of Result	MRID
880.1100. Product identity and composition	The product identity and composition were adequately addressed.	50565401
880.1200. Description of starting materials, production, and formulation process	The description of the starting materials, production, and formulation process were adequately addressed.	50565401
880.1400. Discussion of formation of impurities	The discussion of formation of impurities was adequately addressed.	50565401
830.1700. Preliminary analysis	The preliminary analysis had been adequately addressed.	50565401
830. 1750. Certified limits	The certified limits listed on the CSF are acceptable.	50565401

TABLE 2. Physical and Chemical Properties of DMN TECHNICAL (40 CFR § 158.2030)

OCSPP Guideline	Property	Description of Result	MRID
830.6302	Color	Slight tinge/ pale yellow	50565403
830.6303	Physical State	Clear liquid	50565403
830.6304	Odor	Petroleum-like	50565403
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal Ions	Stable at normal temp.; 6-7% loss at elevated temp.; stable in the presence of metals.	43082509
830.6315	Flammability	>100 °C	50565403
830.6317	Storage Stability	Required data. Not submitted.	
830.6319	Miscibility	Product is not to be diluted in petroleum solvents, so this data requirement is not triggered.	50565405
830.6320	Corrosion Characteristics	Required data. Not submitted.	
830.7000	pH	This study is not required based on the proposed use pattern. 1,4- DMN Technical is a liquid technical and not designed to be dispersed in water	50565405
830.7050	UV/Visible Light Absorption	230-232 nm	50565404
830.7100	Viscosity	Centistokes: 4.5@ 20 °C and 2.6@ 40 °C	50565403
830.7200	Melting Point/Range	Product is a liquid, so this data requirement is not triggered.	50565405
830.7220	Boiling Point/Range	264.9 °C	50565404
830.7300	Density	1.015 g/mL @ 22 °C	50565403
830.7520	Particle Size, Fiber Length and Diameter Distribution	This product is soluble in water, so this data requirement is not triggered.	50565405
830.7550 830.7560 830.7570	Partition Coefficient (n-Octanol/Water)	Product is soluble in water, so this data requirement is not triggered.	50565405
830.7840	Water Solubility	5.1 ppm @ 25 °C	43082507
830.7950	Vapor Pressure	2.5 Pa @ 25 °C; 1.88 x 10 ⁻² Torr @ 25 °C 4.85Pa @ 35 °C 11.7 Pa @ 45 °C	43082508

I. Human Health Assessment

A. Active Ingredient

All human health assessment data requirements have been satisfied and a new risk assessment for 1,4-dimethylnaphthalene (1,4-DMN) is not required at this time. The applicant cited acceptable MRIDs in the data matrix to satisfy the data requirements. BPPD's current risk assessments are sufficient to evaluate the use of this active ingredient in the proposed product because the use pattern of this product is similar to that of currently registered product 1,4Sight® Technical (EPA Reg. No. 67727-2). All proposed uses are indoor and/or contained, thus eliminating the potential for exposure to terrestrial and aquatic environments. Minimal exposure is anticipated, and the chemical degrades rapidly into non-toxic components. PPEs are included on the label that will further reduced exposure to workers. In addition, an exemption from the requirement of a tolerance is established for residues of the plant growth regulator, 1,4- dimethylnaphthalene (1,4- DMN), when

1, 4- dimethylnaphthalene (1,4-DMN)

PC Code: 055802

Type of Review: B672, New unregistered source of A.I. and EUP

DP Number: 447035, 447038

EPA File Symbol: 2749-LIL, 2749-LIA

applied postharvest to all sprouting root, tuber, and bulb crops in accordance with good agricultural practices (40 CFR § 180.1142).

B. End-Use Product

Acute toxicity data (acute oral, acute dermal, acute inhalation, primary eye, primary dermal and skin sensitization) are required for EPs (DMN EUP). To satisfy these data requirements, the applicant requested to use the toxicity information from the submitted information on the TGA I DMN TECHNICAL.

C. Toxicology

1. Acute and Subchronic Toxicity

All human health assessment data requirements have been satisfied for the proposed TGA I product DMN TECHNICAL (EPA File Symbol: 2749-LIL), containing 97.64% 1,4-dimethylnaphthalene and DMN EUP (EPA File Symbol: 2749-LIA). Refer to Table 3 below for a summary of the data submitted for the acute and subchronic toxicity studies.

Table 3 Mammalian Toxicology Data Requirements for DMN TECHNICAL and DMN EUP (40 CFR § 158.2050)			
Study/OCSPP Guideline No.	Results	Toxicity Category	MRID
Acute oral toxicity (rat) (870.1100)	LD ₅₀ = 2730 (95 % C.L. 2346- 3178) mg/kg (males and females using the Up-and Down Method) Acceptable/ Guideline	III	43082510
Acute dermal toxicity (rabbit) (870.1200)	LD ₅₀ > 2,000 mg/kg bodyweight Acceptable/ Guideline	III	43082511
Acute inhalation toxicity (rat) (870.1300)	LC ₅₀ > 4.16 mg/L (4-hr nose-only exposure) Acceptable/ Guideline	IV	43082512
Primary eye irritation (rabbit) (870.2400)	Moderately irritating. Moderate ocular irritation was observed in all rabbits at 24 hours post-treatment with clearance by day 21. Acceptable/ Guideline	II	43082513
Primary dermal irritation (rabbit) (870.2500)	Slight irritation. After treatment, very slight to slight erythema was observed in all males and females through 72 hours with persistence in females until day 7. Well-defined to moderate edema was observed in all males and females within 24 hours post-treatment. At 71 hours, slight edema was observed in one male and one female. Acceptable/ Guideline	IV ¹	43082514
Dermal sensitization (mouse) (870.2600)	Not a dermal sensitizer. Acceptable/ Guideline	--	43082515
90-Day oral toxicity (rat) (870.3100)	Waived. 1,4-DMN rapidly degrades into non-toxic components and have been granted an exemption from the need for a tolerance. Potatoes ingested by consumers are not sprouting and contain 1,4-DMN. The aerosol fog application will not increase 1,4- DMN levels above those found in a potato when typically consumed.	--	50565406
90-Day dermal toxicity (rat) (870.3250)	Waived. Prolonged dermal exposure is not expected based on the use pattern and appropriate PPE requirements and re-entry restrictions on label of end-use product. Product is applied as aerosol in indoor potato storage facilities and applicators/ handlers must vacate premises during treatment.	--	50565406
90-Day inhalation toxicity (rat) (870.3465)	Waived. Significant repeated inhalation exposure is not expected based on the use pattern of aerosol fog application to potatoes in storage. Premises are ventilated prior to re-entry and handlers must wear respirators.	--	50565406

Table 3 Mammalian Toxicology Data Requirements for DMN TECHNICAL and DMN EUP (40 CFR § 158.2050)			
Study/OCSP Guideline No.	Results	Toxicity Category	MRID
Developmental toxicity (870.3700)	Waived. 1,4-DMN rapidly degrades into non-toxic components and have been granted an exemption from the need for a tolerance. Potatoes ingested by consumers are not sprouting and contain 1,4-DMN. The aerosol fog application will not increase 1,4-DMN levels above those found in a potato when typically consumed.	--	50565406
Mutagenicity (Bacterial reverse Mutation) (870.5100)	Not mutagenic under the conditions of the study. Mutagenicity was not observed with or without metabolic activation in any of the 5 strain of <i>Salmonella typhimurium</i> tested.	--	43082516
<i>In vitro</i> Mutagenicity (Unscheduled DNA synthesis in mammalian cells) (870.5550)	Not genotoxic under the conditions of the study. No induction of nuclear grain counts in hepatocytes was observed at the tested concentration range of 0.25 µg/mL to 10 µg/mL	--	43082517
<i>In vivo</i> Mutagenicity (Mammalian erythrocyte micronucleus test) (870.5395)	Not mutagenic under the conditions of the study. There was no increase in the number of micronuclei per 1,000 polychromatic erythrocytes in the bone marrow of mice at doses of 225 mg/kg, 450 mg/kg and 900 mg/kg 1,4-DMN. A decrease in the polychromatic erythrocyte (PCE) and normochromatic erythrocyte (NCE) ratio was observed with increased doses of the chemical.	--	43082518

¹Originally classified as Toxicity Category III; however, the results of the study and the information provided under 40 CFR §156.62 indicate that the chemical should be classified into Toxicity Category IV.

RECOMMENDATIONS AND CONCLUSIONS

1. Storage stability and corrosion characteristics studies were not submitted. These are required product chemistry data and must be submitted to the Agency. All other product chemistry data submitted for this registration application are ACCEPTABLE.
2. The submitted basic CSFs for DMN TECHNICAL (EPA File Symbol: 2749-LIL) dated 03-30-2018 and DMN EUP (EPA File Symbol: 2749-LIA) are ACCEPTABLE.
3. The cited studies in support of this registration application for the acute and subchronic toxicity studies are ACCEPTABLE. DMN TECHNICAL (EPA File Symbol: 2749-LIL) and DMN EUP (EPA File Symbol: 2749-LIA) can be classified as Category II for primary eye irritation, Category III for acute oral and acute dermal toxicity, and Category IV for acute inhalation and primary dermal irritation. The product is not a skin (dermal) sensitizer.

1, 4- dimethylnaphthalene (1,4-DMN)
PC Code: 055802
Type of Review: B672, New unregistered source of A.I. and EUP

DP Number: 447035, 447038
EPA File Symbol: 2749-LIL, 2749-LIA

BIBLIOGRAPHY OF STUDIES

MRID 43082507 through 43082518: ACCEPTABLE
MRID 43266803 ACCEPTABLE
MRID 43594501 ACCEPTABLE

U.S. EPA. Memorandum from Angela Gonzales to Leonard Cole. Toxicology Scoping Document for the Registration Review of 1,4-Dimethylnaphthalene and 2,6-Diisopropylnaphthalene. U.S. Environmental Protection Agency, Office of Chemical Safety and Pollution Prevention. August 20, 2012.

U.S. EPA. Memorandum from Gina Burnett to Colin Walsh. Product Chemistry Scoping Document for the Registration Review of 1,4-Dimethylnaphthalene (1,4- DMN) and 2,6-Diisopropylnaphthalene (2,6- DIPN). U.S. Environmental Protection Agency, Office of Chemical Safety and Pollution Prevention. August 22, 2012.

U.S. EPA. Memorandum from Angela Gonzales to Leonard Cole. Toxicology Scoping Document for the Registration Review of 1,4-Dimethylnaphthalene and 2,6-Diisopropylnaphthalene. U.S. Environmental Protection Agency, Office of Chemical Safety and Pollution Prevention. February 20, 2013.

U.S. EPA. 1,4- Dimethylnaphthalene (055802) Fact Sheet. U.S. Environmental Protection Agency, Office of Pesticide Programs.

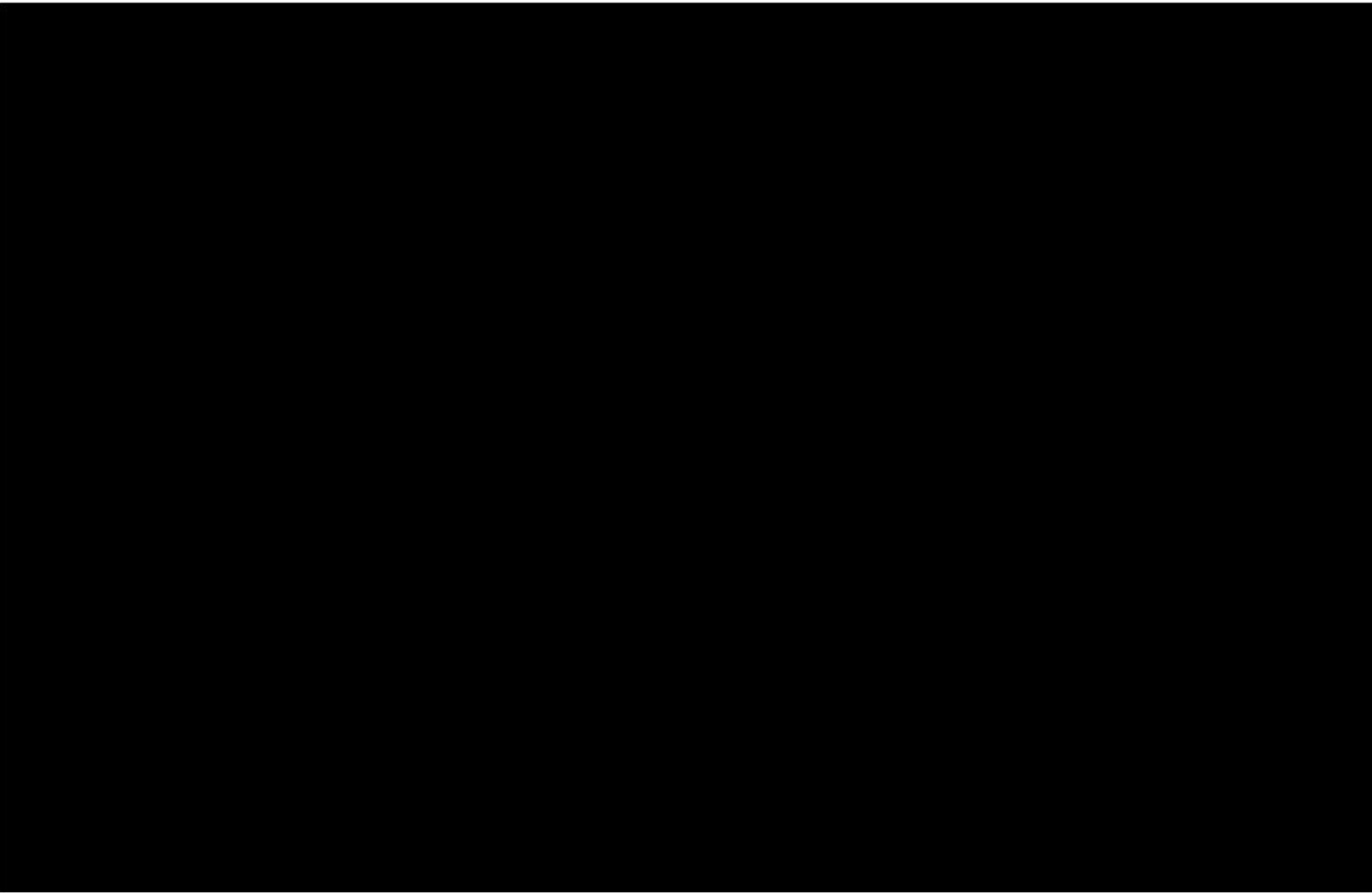
cc: J. Facey, Ph.D., C. Eiden, M. Adams, BPPD Science Review File, Documentum
J. Facey, Ph.D., Toxicologist, FT, PY-S: March 26, 2019.

Refined Oil of *Nepeta cataria*
 PC Code: 00481
 Type of Review: B673, New unregistered source of A.I.

DP Number: 448134
 EPA File Symbol: 91889-U

CONFIDENTIAL APPENDIX

TABLE 1. Basic Nominal CSF concentrations and certified limits for DMN TECHNICAL (EPA File Symbol: 2749-LIL) ^a .					
Ingredients (CAS number)	PC Code	Purpose	Concentration (% by weight)		
			Nominal	Upper	Lower
Active Ingredient					
1,4- dimethylnaphthalene CAS No. 571-58-4		Active Ingredient EPA Reg. #:	97.64	99.9	94.71



21-Day Screen Completed by
Contractor

21-Day Expires on 4/30/18

Jacket # 2749-LIA

MRID# n/a

Content Screen: Recommend to Pass/Fail

11-3 Review: Pass/Fail/NA

Overall Status: Recommend to Pass/Fail

Transfer This Jacket to:

Andrew Bryce/and

PRIA 3 – 21 Day Content Screen Review Worksheet


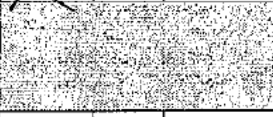
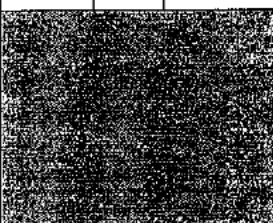
(EPA/OPP Use Only)

September 2012

21 Day Screen Start Date: 4/9/18

Experts In-Processing Signature: MP Date 4/20/18 Fee Paid: Yes

Division management contacted on issues No Yes Date

EPA Reg. Number: <u>2749-LIA</u>		EPA Receipt Date: <u>4/9/18</u>				
Items for Review				Yes	No	N/A*
1	Application Form (EPA Form 8570-1) signed & complete including package type			X		
2	Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4)			X		
	a) All <u>inerts</u> , including fragrances, approved for the proposed uses (see Footnote A)	yes	no			
	<u>No Inerts to Review</u>					
3	Certification with Respect to Citation of Data (EPA Form 8570-34) completed and signed (N/A if 100% repack)			X		
	Certificate and data matrix consistent			X		
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)	yes	no			
	If applicable, is there a letter of Authorization for exclusive use only.					
4	Formulator's Exemption Statement (EPA Form 8570-27) completed and signed (N/A if source is unregistered or applicant owns the technical)					X
	Data Matrix (EPA Form 8570-35) both internal and external copies (PR 98-5) completed and signed (N/A if 100% repack)			X		
5	a) Selective Method (Fee category experts use)	yes	no			
	b) Cite-All (Fee category experts use)	X				
	c) Applicant owns all data (Fee category experts use)					
6	5 Copies of Label (Electronic labels on CD are encouraged and guidance is available)			X		
7	Is the data package consistent with PR Notice 86-5			X		
8	Notice of Filing included with petitions					X

9	If applicable for conventional applications, <u>reduced risk rationale</u>			
	<u>Required Data</u> and/or data waivers. See Footnote C.			
10	a) List study (or studies) not included with application			

Comments:

Documentation: Pass Related Reg No.
 - Required forms are complete 2749-LIL

Inerts: Pass
 - No Inerts to Review

PRN 11-3: Pass
 - No studies submitted

Overall Status: Pass
 Sm 4/23/18

* N/A – Not Applicable

Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses or have an application pending with the Agency. If an unapproved inert with no application pending with the Agency is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are **strongly encouraged** to verify that all inert ingredients have been approved for the application's uses or have an application pending with the Agency **even if a product is currently registered** by consulting the [inert Web site](#) and if the inert is not approved nor has an application pending with the Agency, to **obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient**. Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at inertsbranch@epa.gov and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the [Chief of Microbial Pesticides Branch](#).

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

Unapproved Inerts Identified on CSFs

All applications except conventional new products and PIPs

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Provide the required information necessary to identify an inert approval application that is pending with the Agency; or
3. Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;
4. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

Conventional New Product Applications

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R300 or R301), it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.
3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

April 19, 2018

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

OPP Decision Number: D-540337
EPA File Symbol or Registration Number: 2749-LIA
Product Name: DMN EUP
EPA Receipt Date: 09-Apr-2018
EPA Company Number: 2749
Company Name: ACETO AGRICULTURAL CHEMICALS CORP.

JOHN F. WRIGHT
PRODUCT & REGULATORY ASSOCIATES, LLC
REPRESENTING ACETO AGRICULTURAL CHEMICALS CORP.
8595 COLLIER BLVD., SUITE 107-51
NAPLES, FL 34114

SUBJECT: Receipt of Registration Application Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has received your application and certification of payment. If you submitted data with this application, the results of the PRN-2011-3 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

This action has been identified as action code B672:

NEW PRODUCT;MICROBIAL/BIOCHEMICAL;UNREGISTERED SOURCE OF ACTIVE INGREDIENT;TIER I DATA REQUIREMENTS FOR PRODUCT CHEMISTRY, TOXICOLOGY, NON-TARGET ORGANISMS & PRODUCT PERFORMANCE MUST BE ADDRESSED WITH PRODUCT-SPECIFIC DATA OR REQUESTS FOR DATA WAIVERS WITH SUPPORTING SCIENCE;NO DATA COMPENSATION ISSUES;NON-FOOD USE OR FOOD USE HAVING ESTABLISHED TOLERANCE OR TOLERANCE EXEMPTION; REDUCED FEE (75% REDUCTION): ASSOCIATED WITH ANOTHER PRIA ACTION;

The fee for action code B672 with the 75% up-front discretionary refund is \$2,280. Payment was received in the amount of \$19,838 so a refund in the amount of \$17,558 will be initiated as soon as practicable. If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703)-305-5659.

Sincerely,

A handwritten signature in black ink, appearing to be "J. Wright".

Front End Processing Staff
Information Technology & Resources Management Division



Fee for Service

{1018185Y~

This package includes the following

☒ New Registration

☐ Amendment

☐ Studies? ☐ Fee Waiver?

☐ volpay % Reduction: _____

for Division

☒ AD ?

☐ BPPD

☐ RD

Risk Mgr. 91

Receipt No.

S-

1018185

EPA File Symbol/Reg. No.

2749-LIA

Pin-Punch Date:

4/9/2018

☐ This item is NOT subject to FFS action.

Action Code:

Requested: B672

Granted: B672.1

Amount Due: \$ _____

Parent/Child Decisions:

Primary: 2749-LIL

Secondary:

2749-LIA

☐ Inert Cleared for Intended Use

☐ Uncleared Inert in Product

Reviewer: Andrew Bryce Land Date: 4-13-18

Remarks:

Given B672.1 b/c a single set of ^{the same} data are being used to support both 2749-LIL & 2749-LIA.

S: 1018185

Milestone Email:

Regulatory Type: Product Registration - Section 3

Resubmission: ☐ Yes ☒ No

Application Type: New Registration

Fee For Service: ☒ Yes ☐ No

Billable: ☒ Yes ☐ No

Company: 2749 ACETO AGRICULTURAL CHEMICALS CORP.

V

Risk Manager: Biologicals & Pollution Prevention Division, PM Team 91

Product #: 2749-LIA

Product Name: DMN EUP

Override#:

Me Too

Me Too Product

☐ Section3:

Name:

Application Date: 03-Apr-2018

OPP Rec'd Date: 09-Apr-2018

Front End Date: 09-Apr-2018

Risk Manager Send Date:

FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track: ☐

New Ingredient: ☐

Receipt Description:

NEW REGISTRATION

Receipt Content

Des

CSF

Paper Label

<

>

View/Edit

New Ingredient

Request Date:

New Ingredient

Received Date:

Form A: ☐

Signature Date:

Form B: ☐

Signature Date:

From: notification@pay.gov
To: jwrightch@comcast.net
Subject: Pay.gov Payment Confirmation: PRIA Service Fees
Date: Tuesday, February 20, 2018 10:37:50 AM

Your payment has been submitted to Pay.gov and the details are below. If you have any questions regarding this payment, please contact Michael Yanchulis at (703) 347-0237 or yanchulis.michael@epa.gov.

Application Name: PRIA Service Fees
Pay.gov Tracking ID: 267T0QUD
Agency Tracking ID: 75427277301
Transaction Type: Sale
Transaction Date: 02/20/2018 10:37:44 AM EST

Account Holder Name: Terry Kippley

Transaction Amount: \$19,838.00
Card Type: AmericanExpress
Card Number: *****3001

Registration Number:
Company Name: Aceto Agricultural
Company Number: 2749
Action Code: R334

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.



United States
Environmental Protection Agency
Washington, DC 20460

☒ Registration
☐ Amendment
☐ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 2749-XXX	2. EPA Product Manager Andrew Bryceland	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) DMN EUP	PM#	
5. Name and Address of Applicant (Include ZIP Code) Aceto Agricultural Chemicals Corporation 4 Tri Harbor Court Port Washington, NY 11052 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Application for Pesticide Registration of New Product, PRIA Category: 672 New Product, Unregistered Source of Active Ingredient with Product Chemistry and Waiver Requests with request for overpayment and discretionary refund of PRIA Fee. See cover letter for details.
PRIA Fee \$9,118.00

Section - III

1. Material This Product Will Be Packaged in:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
				<input checked="" type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 1, 2.5, 55 gals and bulk		5. Location of Label Directions <input checked="" type="checkbox"/> On container	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input checked="" type="checkbox"/> Other paper glued on			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name John F. Wright		Title Authorized Representative Aceto		Telephone No. (Include Area Code) 609.841.8288	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped)
2. Signature 		3. Title Authorized Representative Aceto Agricultural Chemicals Corp			
4. Typed Name John F. Wright		5. Date April 3, 2018			

Product & Regulatory Associates, L.L.C.

April 3, 2018

Mr. Andrew Bryceland
Document Processing Desk (REGFEE)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: **DMN EUP**
EPA File Symbol 2749-XXX
Application for Pesticide Registration for a New Product
PRIA Category: B672 New Product, Unregistered Source of Active
Ingredient with Product Chemistry and Waiver Request
with an Overpayment AND Discretionary Refund of PRIA
Fee Requests.

PRIA Milestone Tracking E-mail Notification: jwrightch@comcast.net

Dear Mr. Bryceland:

On behalf of Aceto Agricultural Chemicals Corporation, I am transmitting this application for pesticide registration of DMN EUP to the U.S. Environmental Protection Agency.

This new product registration is substantially similar to 1,4Sight®, EPA Reg. No. 67727-1 and 1,4Seed®, EPA Reg. No. 67727-3. This is an end use product. This product contains DMN, PC Code 55802 as the sole active ingredient. The use sites on the proposed label are those listed on the latest 1,4Sight®, EPA Reg. No. 67727-1 and 1,4Seed®, EPA Reg. No. 67727-3 labels, dated September 12, 2013 and July 30, 2013 respectfully.

Under separate cover, Aceto has filed a registration application for DMN Technical, EPA File Symbol 2749-XXX. This end-use registration application is 100% repackage of the technical grade material with "Direction for Use". The product chemistry data and acute toxicology data for this end use product are the same as those for the technical grade material as referenced below.

Aceto is using the "selective" method of data support for this registration application covering the use sites listed on the proposed label. The enclosed Data Matrix forms list the appropriate data requirements for this new product registration.

The PRIA Category is B672, an application for registration of a new product with an unregistered source of active ingredient, food use with a tolerance exemption previously established for the active ingredient. The fee is \$9,118.00. In its preparation for the registration application, Aceto incorrect selected the PRIA Category of R334 with a fee of \$19,838.00. **An overpayment refund for \$10,720.00 is requested** for the over payment. In telephone discussion with Mr. Michael Yanchulis, he indicated this would be the best way to correct this issue.

For a New End Use Product with unregistered source of active ingredient, the appropriate PRIA Category is B672. This end-use registration application is 100% repackaging of the technical grade material with "Direction for Use". The product chemistry data and acute toxicology data for this end use product are the same as those for the technical grade material. Since this end-use product is substantially similar to the cite products and the active ingredient product chemistry and acute toxicology reviews are underway, then this action would normally fall under the PRIA Category B660. Therefore, once the Notice of Registration is issued, **Aceto is requesting a discretionary refund here for those reviews.**

The registration application request contains the following enclosed materials:

Administrative Documents

- Application for Pesticide Registration (EPA Form 8750-1)
- Cover letter
- PRIA III Fee Confirmation 267T0QUD (2 copies)
- Confidential Statement of Formula Basic (EPA Form 8750-4) (2 Copies)
- Certificate with Respect to Citation of Data (EPA Form 8570-34)
- Data matrix private and public copies (EPA Form 8570-35)
- Copies of proposed label (5 copies)

The data for the referenced DMN Technical registration application includes:

- "1,4-DMN Technical, Product Chemistry, Group A: Product Identity, Composition and Analytical Test Guidelines", OPPTS Guidelines: 830.1550, 830.1600, 830.1620, 830.1670, & 830.1750, John F. Wright, Product & Regulatory Associates, LLC, March 30, 2018, Study Number 18-PRA-Aceto-130.
- "1,4-DMN Technical AG34149, Preliminary Analysis", OPPTS Guideline 830.1700 & 830.1800, David Sinning, Product Safety Labs, April 3, 2018, Laboratory Study Number 46647.
- "1,4-DMN Technical AG34149: Physical and Chemical Characteristics: Color, Physical State, Odor, Flammability, Viscosity and Density/Relative Density", OPPTS Guidelines 830.6302, 830.6303, 830.6304, 830.6315,

830.7100, & 830.7300, Catherine Wo, Product Safety Labs, December 23, 2017, Laboratory Study Number 46649.

- “1,4-DMN Technical AG34149: Physical and Chemical Characteristics: Boiling Point and UV/Visible Absorption”, OPPTS Guidelines 830.7220 & 830.7050, Catherine Wo, Product Safety Labs, December 27, 2017, Laboratory Study Number 46648.
- “1,4-DMN Technical, Product Chemistry, Group B: Physical and Chemical Properties Test Guidelines – Summary of Product Chemistry Waiver Requests”, OPPTS Guidelines: 830.6313, 830.6317, 830.6319, 830.6320, 830.7000, 830.7200, 830.7520, 830.7550 830.7560, 830.7570, 830.7840, 830.7860 & 830.7950, John F. Wright, Product & Regulatory Associates, LLC, March 26, 2018, Study Number 18-PRA-Aceto-131. (3 copies)
- “DMN Technical, Waiver Requests for 90 Day Oral, Dermal, Inhalation and Reproductive Developmental Studies”, OPPTS Series 870.3100, 870.3250, 870.3465 and 870.3700, John F. Wright, Product & Regulatory Associates, LLC, February 14, 2018, Study Number 18-PRA-Aceto-132 (3 copies)

If you have any question in regard to this mater, feel free to contact me at (609) 841-8288 or JWrightCH@comcast.net.

Sincerely,



John F. Wright
Product & Regulatory Associates, LLC
Authorized Representative of Aceto Corporation

cc: Terry Kippley, Aceto



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the completed form to this address.

Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address, and Telephone Number Aceto Agricultural Chemical Corp, 4 Tri Harbor Ct., Port Washington, NY 11050, 516.627.6000	EPA Registration Number/File Symbol 2749-XXX
Active Ingredient(s) and/or representative test compound(s) 1,4-dimethylnaphthalene	Date April 3, 2018
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) Terrestrial Food Crop and Nonfood	Product Name DMN EUP

NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

<input type="checkbox"/> I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).	<input checked="" type="checkbox"/> I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).
--	---

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☒ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

SECTION III: CERTIFICATION

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature 	Date 4/3/18	Typed or Printed Name and Title John F. Wright Authorized Representative
---------------	----------------	---

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date April 3, 2018

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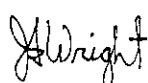
Applicant's/Registrant's Name & Address

Aceto Agricultural Chemicals Corp.
4 Tri Harbor Court
Port Washington, NY 11050

Product

DMN EUP

Ingredient: 1,4-Dimethylnaphthalene (Chemical code 55802)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA REQUIREMENTS					
880.1100	Product identity and composition	TBA	Aceto Agricultural Chemicals Corp.	OWN	
880.1200	Description of Starting Materials, Production and Formulation Process	TBA	Aceto Agricultural Chemicals Corp.	OWN	
880.1400	Discussion of Formation of Impurities	TBA	Aceto Agricultural Chemicals Corp.	OWN	
830.1700	Preliminary Analysis	TBA	Aceto Agricultural Chemicals Corp.	OWN	
830.1750	Certified Limits	TBA	Aceto Agricultural Chemicals Corp.	OWN	
830.1800	Enforcement Analytical Method	TBA	Aceto Agricultural Chemicals Corp.	OWN	
830.6302	Color	TBA	Aceto Agricultural Chemicals Corp.	OWN	
830.6303	Physical State	TBA	Aceto Agricultural Chemicals Corp.	OWN	
830.6304	Odor	TBA	Aceto Agricultural Chemicals Corp.	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal Ions	43082509		OLD	
830.6315	Flammability	TBA	Aceto Agricultural Chemicals Corp.	OWN	
830.6317	Storage Stability				PR Notice 92-5
830.6319	Miscibility				Not Required
830.6320	Corrosion Characteristics				PR Notice 92-5
830.7000	pH				Not Required
830.7050	UV/Visible Absorption	TBA	Aceto Agricultural Chemicals Corp.	OWN	
830.7100	Viscosity	TBA	Aceto Agricultural Chemicals Corp.	OWN	
830.7200	Melting Point/Melting Range				Not Required
Signature			Name and Title		Date
			Authorized Representative		April 3, 2018

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DATA MATRIX

Date April 3, 2018	EPA Reg No./File Symbol 2749-XXX	Page 2 of 7
Applicant's/Registrant's Name & Address Aceto Agricultural Chemicals Corp. 4 Tri Harbor Court Port Washington, NY 11050	Product DMN EUP	

Ingredient: 1,4-Dimethylnaphthalene (Chemical code 55802)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7220	Boiling Point/Boiling Range	TBA	Aceto Agricultural Chemicals Corp.	OWN	
830.7300	Density/Relative Density/Bulk Density	TBA	Aceto Agricultural Chemicals Corp.	OWN	
830.7520	Particle size, fiber length, and diameter distribution				See endnote ¹
830.7550, 830.7560, 850.7570	Partition Coefficient (n-octanol/water)				See endnote ²
830.7840	Water Solubility	43082507		OLD	
830.7950	Vapor Pressure	43082508		OLD	
870.1100	Acute oral toxicity	43082510		OLD	See endnote ³
870.1200	Acute dermal toxicity	43082511		OLD	See endnote ⁴
870.1300	Acute inhalation toxicity	43082512		OLD	See endnote ⁵
870.2400	Eye irritation	43082513		OLD	See endnote ⁶
870.2500	Skin irritation	43082514		OLD	See endnote ⁷
870.2600	Skin sensitization	43082515		OLD	See endnote ⁸
GENERIC DATA REQUIREMENTS					
850.2100	Acute Avian Oral Toxicity				Not required ⁹
850.2200	Acute Avian Dietary Toxicity				Not required ¹⁰
850.1075	Freshwater Fish Toxicity				Not required ¹¹
850.1010	Freshwater Invertebrate Toxicity				Not required ¹²
850.4100	Terrestrial Plant Toxicity Seedling Emergence				Not required ¹³

Signature 	Name and Title Authorized Representative	Date April 3, 2018
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Applicant's/Registrant's Name & Address		Product			
Aceto Agricultural Chemicals Corp. 4 Tri Harbor Court Port Washington, NY 11050		DMN EUP			
Ingredient: 1,4-Dimethylnaphthalene (Chemical code 55802)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4150	Terrestrial Plant Toxicity Vegetative Vigor				Not required ¹⁴
880.4350	Nontarget Insect Testing				Not required ¹⁵
835 and 850 series	Tier II Environmental Fate and Ecotoxicity Testing				Not required ¹⁶
870.3100	90-Day Oral: Rodent				Waiver ¹⁷
870.3250	90-Day Dermal Toxicity				Waived ¹⁸
870.3465	90-Day Inhalation Toxicity				Waived ¹⁹
870.3700	Reproduction/Developmental Toxicity Screening Test				Waiver ²⁰
870.5100	Bacterial Reverse Mutation Test	43082516		OLD	See endnote ²¹
870.5300, 870.5375, 870.5550	<i>In vitro</i> Mammalian Cell Assay	43082517		OLD	See endnote ²²
870.5385, 870.5395	<i>In vivo</i> Cytogenetics and Other Effects	43082518		OLD	See endnote ²³
870.3550	Immunotoxicity				Not required ²⁴
880.3800	Immune Response				Not required ²⁵
870.3800	2-Generation Reproduction: Rat				Not required ²⁶
870.4300	Carcinogenicity				Not required ²⁷
870.5380	Mammalian Spermatogonial Chromosome Aberration				Not required ²⁸
870.7200	Companion Animal Safety				Not required ²⁹
870.7600	Dermal Penetration				Not required ³⁰

Signature 	Name and Title Authorized Representative	Date April 3, 2018
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Applicant's/Registrant's Name & Address Aceto Agricultural Chemicals Corp. 4 Tri Harbor Court Port Washington, NY 11050	Product DMN EUP	

Ingredient: 1,4-Dimethylnaphthalene (Chemical code 55802)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.1100	Dermal Exposure – Outdoor				Not required ³¹
875.1200	Dermal Exposure - Indoor				Not required ³²
875.1300	Inhalation Exposure – Outdoor				Not required ³³
875.1400	Inhalation Exposure - Indoor				Not required ³⁴
875.1500	Biological Monitoring				Not required ³⁵
860.1300	Nature of the Residue: Plants				Not required ³⁶
860.1300	Nature of the Residue: Livestock				Not required ³⁷
860.1340	Residue Analytical Method				Not required ³⁸
860.1360	Multiresidue Method				Not required ³⁹
860.1380	Storage Stability				Not required ⁴⁰
860.1500	Magnitude of the Residue in Plants: potatoes	43266803 43594501		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: potatoes	43266803 43594501		OLD OLD	
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs				Not required ⁴¹
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required ⁴²
860.1400	Magnitude of the Residue in Fish				Not required ⁴³

Signature 	Name and Title Authorized Representative	Date April 3, 2018
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Ingredient: 1,4-Dimethylnaphthalene (Chemical code 55802)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water				Not required ⁴⁴
860.1460	Magnitude of the Residue in Food Handling Establishments				Not required ⁴⁵

Signature 	Name and Title Authorized Representative	Date April 3, 2018
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Endnotes for Data Matrix for 1,4-DMN Technical

¹ **830.7520** - The study is Not Applicable (N/A) data requirement as per the August 22, 2012 Product Chemistry Scoping Document for the Registration Review of 1,4-dimethylmaphthalene and 2,6-diisopropylnaphthalene (PC Scoping Document).

² **830.7550, 830.7560, 830.7570** - The study is Not Applicable (N/A) data requirement as per PC Scoping Document.

³ **870.1100** – The study cited is acceptable and satisfies the data requirement as per the Feb. 20, 2013 Toxicology Scoping Document for the Registration Review of 1,4-dimethylmaphthalene and 2,6-diisopropylnaphthalene (Scoping Document).

⁴ **870.1200** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

⁵ **870.1300** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

⁶ **870.2400** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

⁷ **870.2500** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

⁸ **870.2600** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document. Note: two studies were identified as acceptable in the Scoping Document, but only one is required to support the registration. Therefore, only one study is cited here.

⁹ **850.2100** – This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the June 2013 1,4-dimethylmaphthalene (1,4-DMN) and 2,6-diisopropylnaphthalene (2,6-DIPN) Final Work Plan (FWP)).

¹⁰ **850.2200** – This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the FWP).

¹¹ **850.1075** – This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the FWP).

¹² **850.1010** – This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the FWP).

¹³ **850.4100** – This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the FWP).

¹⁴ **850.4150** – This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the FWP).

¹⁵ **850.4350** – This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the FWP).

¹⁶ **835 and 850 series** – This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the FWP).

¹⁷ **870.3100** – The waiver cited is acceptable and satisfies the data requirement as per the 1,4-dimethyl Naphthalene (1,4-DMN), 2,6-diisopropylnaphthalene (2,6-DIPN) Preliminary Work Plan (PWP), EPA-HQ-OPP-2012-0670-0004.

¹⁸ **870.3250** – As per the Scoping Document, these data are waived based on limited dermal exposure as a result of the use pattern.

¹⁹ **870.3465** – As per the Scoping Document, these data are waived based on limited inhalation exposure as a result of the use pattern.

²⁰ **870.3700** – The waiver cited is acceptable and satisfies the data requirement as per the PWP.

²¹ **870.5100** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

²² **870.5300, 870.5375, 870.5550** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

²³ **870.5385, 870.5395** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

²⁴ **870.3550** – These data are not required based on the toxicity profile of 1,4-DMN and the proposed use patterns. In addition, no data have been submitted to satisfy this requirement and no data were required in the Scoping Document.

- ²⁵ **880.3800** – These data are not required based on the toxicity profile of 1,4-DMN and the proposed use patterns. In addition, no data have been submitted to satisfy this requirement and no data were required in the Scoping Document.
- ²⁶ **870.3800** – Although the Scoping Document summarized data that were submitted, it also noted that the Agency did not require the submission of these data. Therefore, no data are cited and this is not considered a data requirement for this product.
- ²⁷ **870.4300** – Although the Scoping Document summarized data that were submitted, it also noted that the Agency did not require the submission of these data. Therefore, no data are cited and this is not considered a data requirement for this product.
- ²⁸ **870.5380** – These data are not required based on the toxicity profile of 1,4-DMN and the proposed use patterns. In addition, no data have been submitted to satisfy this requirement and no data were required in the Scoping Document.
- ²⁹ **870.7200** – These data are not required based on the proposed use patterns.
- ³⁰ **870.7600** – Although the Scoping Document summarized data that were submitted, it also noted that the Agency did not require the submission of these data. Therefore, no data are cited and this is not considered a data requirement for this product.
- ³¹ **875.1100** – These data are not required based on the proposed use patterns.
- ³² **875.1200** – These data are not required based on the toxicity profile of 1,4-DMN and the proposed use patterns. In addition, no data have been submitted to satisfy this requirement and no data were required in the Scoping Document.
- ³³ **875.1300** – These data are not required based on the proposed use patterns.
- ³⁴ **875.1400** – These data are not required based on the toxicity profile of 1,4-DMN and the proposed use patterns. In addition, no data have been submitted to satisfy this requirement and no data were required in the Scoping Document.
- ³⁵ **875.1500** – These data are not required based on the toxicity profile of 1,4-DMN and the proposed use patterns. In addition, no data have been submitted to satisfy this requirement and no data were required in the Scoping Document.
- ³⁶ **860.1300** – 1,4-Dimethylnaphthalene is exempt from the requirement of a tolerance for the proposed uses; therefore, these data are not required (see 40 CFR 180.1142).
- ³⁷ **860.1300** – 1,4-Dimethylnaphthalene is exempt from the requirement of a tolerance for the proposed uses; therefore, these data are not required (see 40 CFR 180.1142).
- ³⁸ **860.1340** – 1,4-Dimethylnaphthalene is exempt from the requirement of a tolerance for the proposed uses; therefore, these data are not required (see 40 CFR 180.1142).
- ³⁹ **860.1360** – 1,4-Dimethylnaphthalene is exempt from the requirement of a tolerance for the proposed uses; therefore, these data are not required (see 40 CFR 180.1142).
- ⁴⁰ **860.1380** – 1,4-Dimethylnaphthalene is exempt from the requirement of a tolerance for the proposed uses; therefore, these data are not required (see 40 CFR 180.1142).
- ⁴¹ **860.1480** – 1,4-Dimethylnaphthalene is exempt from the requirement of a tolerance for the proposed uses; therefore, these data are not required (see 40 CFR 180.1142).
- ⁴² **860.1400** – These data are not required based on the proposed use patterns.
- ⁴³ **860.1400** – These data are not required based on the proposed use patterns.
- ⁴⁴ **860.1400** – These data are not required based on the proposed use patterns.
- ⁴⁵ **860.1400** – These data are not required based on the proposed use patterns.

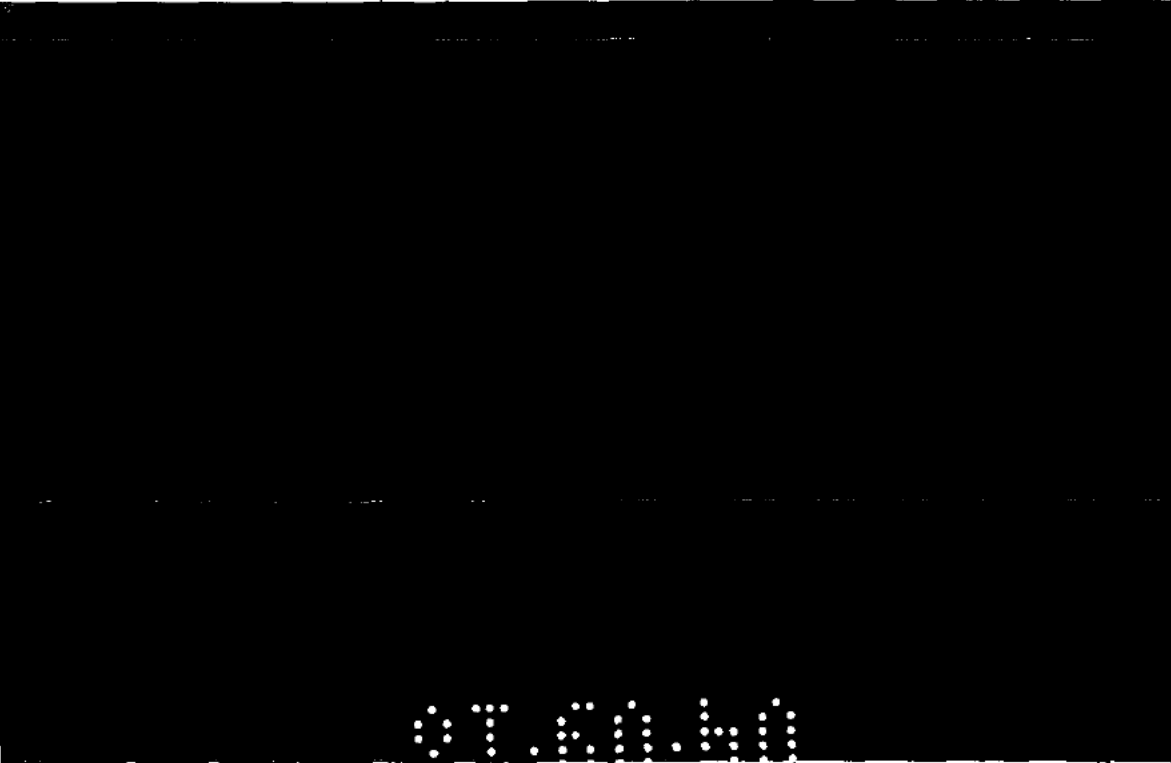
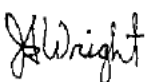
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Aceto Agricultural Chemicals Corp. 4 Tri Harbor Court Port Washington, NY 11050		DMN EUP			
Ingredient: 1,4-Dimethylnaphthalene (Chemical code 55802)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Aceto Agricultural Chemicals Corp.	OWN	
			Aceto Agricultural Chemicals Corp.	OWN	
			Aceto Agricultural Chemicals Corp.	OWN	
			Aceto Agricultural Chemicals Corp.	OWN	
			Aceto Agricultural Chemicals Corp.	OWN	
			Aceto Agricultural Chemicals Corp.	OWN	
			Aceto Agricultural Chemicals Corp.	OWN	
			Aceto Agricultural Chemicals Corp.	OWN	
			Aceto Agricultural Chemicals Corp.	OWN	
			Aceto Agricultural Chemicals Corp.	OWN	
				OLD	
			Aceto Agricultural Chemicals Corp.	OWN	
					PR Notice 92-5
					Not Required
					PR Notice 92-5
		Not Required			
	Aceto Agricultural Chemicals Corp.	OWN			
	Aceto Agricultural Chemicals Corp.	OWN			
			Not Required		
Signature			Name and Title		Date
			Authorized Representative		April 3, 2018

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4 Tri Harbor Court
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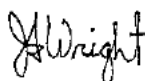
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Aceto Agricultural Chemicals Corp.	OWN	
			Aceto Agricultural Chemicals Corp.	OWN	
					See endnote ¹
					See endnote ²
				OLD	
				OLD	
				OLD	See endnote ³
				OLD	See endnote ⁴
				OLD	See endnote ⁵
				OLD	See endnote ⁶
				OLD	See endnote ⁷
				OLD	See endnote ⁸
					Not required ⁹
					Not required ¹⁰
					Not required ¹¹
					Not required ¹²
					Not required ¹³

Signature



Name and Title

Authorized Representative

Date

April 3, 2018

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Ingredient: 1,4-Dimethylnaphthalene (Chemical code 55802)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
					Not required ¹⁴
					Not required ¹⁵
					Not required ¹⁶
					Waiver ¹⁷
					Waived ¹⁸
					Waived ¹⁹
					Waiver ²⁰
				OLD	See endnote ²¹
				OLD	See endnote ²²
				OLD	See endnote ²³
					Not required ²⁴
					Not required ²⁵
					Not required ²⁶
					Not required ²⁷
					Not required ²⁸
					Not required ²⁹
					Not required ³⁰

Signature 	Name and Title Authorized Representative	Date April 3, 2018
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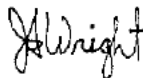
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Ingredient: 1,4-Dimethylnaphthalene (Chemical code 55802)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
					Not required ³¹
					Not required ³²
					Not required ³³
					Not required ³⁴
					Not required ³⁵
					Not required ³⁶
					Not required ³⁷
					Not required ³⁸
					Not required ³⁹
					Not required ⁴⁰
				OLD	
				OLD	
				OLD	
				OLD	
					Not required ⁴¹
					Not required ⁴²
					Not required ⁴³

Signature



Name and Title

Authorized Representative

Date

April 3, 2018

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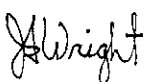
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
					Not required ⁴⁴
					Not required ⁴⁵

Signature	Name and Title	Date
	Authorized Representative	April 3, 2018

Endnotes for Data Matrix for 1,4-DMN Technical

¹ **830.7520** - The study is Not Applicable (N/A) data requirement as per the August 22, 2012 Product Chemistry Scoping Document for the Registration Review of 1,4-dimethylmaphthalene and 2,6-diisopropylnaphthalene (PC Scoping Document).

² **830.7550, 830.7560, 830.7570** - The study is Not Applicable (N/A) data requirement as per PC Scoping Document.

³ **870.1100** - The study cited is acceptable and satisfies the data requirement as per the Feb. 20, 2013 Toxicology Scoping Document for the Registration Review of 1,4-dimethylmaphthalene and 2,6-diisopropylnaphthalene (Scoping Document).

⁴ **870.1200** - The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

⁵ **870.1300** - The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

⁶ **870.2400** - The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

⁷ **870.2500** - The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

⁸ **870.2600** - The study cited is acceptable and satisfies the data requirement as per the Scoping Document. Note: two studies were identified as acceptable in the Scoping Document, but only one is required to support the registration. Therefore, only one study is cited here.

⁹ **850.2100** - This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the June 2013 1,4-dimethylmaphthalene (1,4-DMN) and 2,6-diisopropylnaphthalene (2,6-DIPN) Final Work Plan (FWP)).

¹⁰ **850.2200** - This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the FWP).

¹¹ **850.1075** - This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the FWP).

¹² **850.1010** - This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the FWP).

¹³ **850.4100** - This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the FWP).

¹⁴ **850.4150** - This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the FWP).

¹⁵ **850.4350** - This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the FWP).

¹⁶ **835 and 850 series** - This product is only proposed for use on post-harvest potatoes (indoor use only). Therefore, these data are not required (see the FWP).

¹⁷ **870.3100** - The waiver cited is acceptable and satisfies the data requirement as per the 1,4-dimethyl Naphthalene (1,4-DMN), 2,6-diisopropylnaphthalene (2,6-DIPN) Preliminary Work Plan (PWP), EPA-HQ-OPP-2012-0670-0004.

¹⁸ **870.3250** - As per the Scoping Document, these data are waived based on limited dermal exposure as a result of the use pattern.

¹⁹ **870.3465** - As per the Scoping Document, these data are waived based on limited inhalation exposure as a result of the use pattern.

²⁰ **870.3700** - The waiver cited is acceptable and satisfies the data requirement as per the PWP.

²¹ **870.5100** - The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

²² **870.5300, 870.5375, 870.5550** - The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

²³ **870.5385, 870.5395** - The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

²⁴ **870.3550** - These data are not required based on the toxicity profile of 1,4-DMN and the proposed use patterns. In addition, no data have been submitted to satisfy this requirement and no data were required in the Scoping Document.

- ²⁵ **880.3800** – These data are not required based on the toxicity profile of 1,4-DMN and the proposed use patterns. In addition, no data have been submitted to satisfy this requirement and no data were required in the Scoping Document.
- ²⁶ **870.3800** – Although the Scoping Document summarized data that were submitted, it also noted that the Agency did not require the submission of these data. Therefore, no data are cited and this is not considered a data requirement for this product.
- ²⁷ **870.4300** – Although the Scoping Document summarized data that were submitted, it also noted that the Agency did not require the submission of these data. Therefore, no data are cited and this is not considered a data requirement for this product.
- ²⁸ **879.5380** – These data are not required based on the toxicity profile of 1,4-DMN and the proposed use patterns. In addition, no data have been submitted to satisfy this requirement and no data were required in the Scoping Document.
- ²⁹ **879.7200** – These data are not required based on the proposed use patterns.
- ³⁰ **870.7600** – Although the Scoping Document summarized data that were submitted, it also noted that the Agency did not require the submission of these data. Therefore, no data are cited and this is not considered a data requirement for this product.
- ³¹ **875.1100** – These data are not required based on the proposed use patterns.
- ³² **875.1200** – These data are not required based on the toxicity profile of 1,4-DMN and the proposed use patterns. In addition, no data have been submitted to satisfy this requirement and no data were required in the Scoping Document.
- ³³ **875.1300** – These data are not required based on the proposed use patterns.
- ³⁴ **875.1400** – These data are not required based on the toxicity profile of 1,4-DMN and the proposed use patterns. In addition, no data have been submitted to satisfy this requirement and no data were required in the Scoping Document.
- ³⁵ **875.1500** – These data are not required based on the toxicity profile of 1,4-DMN and the proposed use patterns. In addition, no data have been submitted to satisfy this requirement and no data were required in the Scoping Document.
- ³⁶ **860.1300** – 1,4-Dimethylnaphthalene is exempt from the requirement of a tolerance for the proposed uses; therefore, these data are not required (see 40 CFR 180.1142).
- ³⁷ **860.1300** – 1,4-Dimethylnaphthalene is exempt from the requirement of a tolerance for the proposed uses; therefore, these data are not required (see 40 CFR 180.1142).
- ³⁸ **860.1340** – 1,4-Dimethylnaphthalene is exempt from the requirement of a tolerance for the proposed uses; therefore, these data are not required (see 40 CFR 180.1142).
- ³⁹ **860.1360** – 1,4-Dimethylnaphthalene is exempt from the requirement of a tolerance for the proposed uses; therefore, these data are not required (see 40 CFR 180.1142).
- ⁴⁰ **860.1380** – 1,4-Dimethylnaphthalene is exempt from the requirement of a tolerance for the proposed uses; therefore, these data are not required (see 40 CFR 180.1142).
- ⁴¹ **860.1480** – 1,4-Dimethylnaphthalene is exempt from the requirement of a tolerance for the proposed uses; therefore, these data are not required (see 40 CFR 180.1142).
- ⁴² **860.1400** – These data are not required based on the proposed use patterns.
- ⁴³ **860.1400** – These data are not required based on the proposed use patterns.
- ⁴⁴ **860.1400** – These data are not required based on the proposed use patterns.
- ⁴⁵ **860.1400** – These data are not required based on the proposed use patterns.

DMN EUP

Plant Growth Regulator

For use on (Potato) (Seed Potato) (Root, Tuber and Bulb (Crop)) as
Dormancy Enhancer

ACTIVE INGREDIENT:	% w/w
1,4-dimethylnaphthalene:*	97.64%
OTHER INGREDIENTS:	2.36%
TOTAL	100.0%

*Contains 8.3 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL CHEMTREC TOLL FREE 1-800-424-9300 or 1-703-527-3887.	

EPA Reg. No. 2749-XXX
EPA Est. No. XXXXXX-XX-XXX

MANUFACTURED FOR:
Aceto Agricultural Chemicals Corporation
4 Tri Harbor Court
Port Washington, NY 11050

See [attached][enclosed] [inside] [outside carton] [booklet] for [First Aid,] [additional] Precautionary Statements and Directions for Use.

NET CONTENTS: X gallons

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING. Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, use tobacco or using the toilet. Remove and wash contaminated clothing before uses.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as butyl rubber or nitrile rubber
- Shoes plus socks
- Protective eyewear (goggles or face shield)
- Respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is highly toxic to fresh water fish and aquatic invertebrates. Do not contaminate water when disposing of equipment wash waters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulations.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forest, nurseries and green houses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE), restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during this restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

Coveralls over long-sleeved shirt, long pants

Shoes plus socks

Chemical-resistant gloves such as butyl rubber or nitrile rubber

Face sealing goggles, unless a full-face respirator is worn.

Respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R. P. or HE prefilter.

PRODUCT INFORMATION

This product is a plant growth regulator used as an aerosol fog to enhance the dormancy of [seed] potatoes [(and other root and tuber crops, bulb crops, and ornamental flowering bulbs)] [prior to germination][or][during storage phase].

RESTRICTIONS

Do not apply this product to potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) in the field.

Do not allow vapors to come in contact with storage areas used for seed potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) within 30 days of their planting.

PRECAUTIONS

This product may be applied any time after the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) are placed into the storage area.

This product is a short term dormancy enhancer which should not adversely affect eventual germination of seed potatoes (or other crops) held for future planting.

For seed potatoes (or other sprouting root, tuber and bulb crops), allow 60 days elapse before using a treated storage area as a temporary holding area. Air system components (including ducts) and building must be thoroughly ventilated before area is used for storage of seed potatoes (or other sprouting root, tuber and bulb crops) to prevent dormancy effects.

This product is for use on [sprouting root and tuber crops: beet, carrot, cassava, dasheen (taro), ginger, ginseng, horseradish, parsnip, potato, sweet potato, turnip, yam] [sprouting bulb crops; garlic, leek, onion, shallot] [and] [sprouting ornamentals; flower bulbs].

FORCED AIR DISTRIBUTION METHOD

1. Set up aerosol fogging equipment to provide optimum distribution of aerosol fog in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
2. During the application, run fans to aid disbursement of fog, but it is not required.
3. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).

TREATMENT OF STORAGE AREAS THAT DO NOT HAVE RECIRCULATING AIR SYSTEMS

These storage areas are more difficult to treat. Additional steps must be taken to treat these storage areas.

1. Set up aerosol fogging equipment to provide optimum distribution of aerosol fog in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
2. Completely close off the area to be treated. This may include vent doors in the attic and walk doors around the perimeter. The large truck doors may need to be sealed to prevent excess leakage.
3. Begin the treatment by following the listed steps:
 - a. Start the aerosol fogging equipment.
 - b. Adjust the location of the aerosol fog equipment so all the storage area receives an equal amount of aerosol fog. It may be necessary to move the aerosol fog generator during the application or make the application in multiple phases. For reentry into treated areas during application and prior to ventilation or settling of the aerosol fog, see the AGRICULTURAL USE REQUIREMENT section.
4. Wait at least 12 hours before fresh air is introduced into the storage area, then return the storage area to "normal" operation.
5. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops or bulb crops, or ornamental flowering bulbs).

TREATMENT in SMALL CONTAINER

1. Set up application equipment to provide optimum distribution of applicator in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
2. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops or bulb crops, or ornamental flowering bulbs).

APPLICATION TIMING AND RATES

This product may be applied any time after the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) are placed into the storage area.

1. Apply at rates of up to 1 pound of active ingredient per 50,000 lbs. (500 cwt), which is equivalent to 20 ppm on a product to crop basis or 1 gallon per 4,000 cwt.
2. While potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) may be retreated as necessary for effective control, do not exceed the maximum application of 80 ppm during the storage season.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Keep out of reach of children and animals. Store in closed, original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of at an approved waste disposal facility.

[Metal Containers less than 5 Gallons.]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into formulating equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over formulating equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. If rinsate cannot be used, follow pesticide disposal instructions. If not triples rinsed or pressure rinsed (or equivalent), these containers may be hazardous waste and must be disposed in accordance with local, state and federal regulations. DO NOT cut or weld metal containers. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures allowed by state and local authorities.

[Metal Containers greater than 5 Gallons.]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into formulating equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over formulating equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. If rinsate cannot be used, follow pesticide disposal instructions. If not triples rinsed or pressure rinsed (or equivalent), these containers may be hazardous waste and must be disposed in accordance with local, state and federal regulations. DO NOT cut or weld metal containers. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures allowed by state and local authorities.

Batch Code: _____

WARRANTY DISCLAIMER AND NOTICE

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Aceto Agricultural Chemicals Corporation. To the extent consistent with applicable law, all such risks shall be

assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, ACETO AGRICULTURAL CHEMICALS CORPORATION MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Aceto Agricultural Chemicals Corporation is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, ACETO AGRICULTURAL CHEMICALS CORPORATION DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT ACETO AGRICULTURAL CHEMICALS CORPORATION'S ELECTION, THE REPLACEMENT OF PRODUCT.

Batch Code: _____

CHEMTREC is a registered trademark of the American Chemical Society.

All trademarks are proprietary of their respective owners.

Made in China [packaged in USA].

[Active ingredient made [and formulated] in [Japan][China], [formulated in USA] [and] [package in USA]].

DMN EUP

Plant Growth Regulator

For use on (Potato) (Seed Potato) (Root, Tuber and Bulb (Crop)) as
Dormancy Enhancer

ACTIVE INGREDIENT:	% w/w
1,4-dimethylnaphthalene:*	97.64%
OTHER INGREDIENTS:	2.36%
TOTAL	100.0%

*Contains 8.3 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL CHEMTREC TOLL FREE 1-800-424-9300 or 1-703-527-3887.	

EPA Reg. No. 2749-XXX
EPA Est. No. XXXXXX-XX-XXX

MANUFACTURED FOR:
Aceto Agricultural Chemicals Corporation
4 Tri Harbor Court
Port Washington, NY 11050

See [attached][enclosed] [inside] [outside carton] [booklet] for [First Aid,] [additional] Precautionary Statements and Directions for Use.

NET CONTENTS: X gallons

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING. Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, use tobacco or using the toilet. Remove and wash contaminated clothing before uses.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as butyl rubber or nitrile rubber
- Shoes plus socks
- Protective eyewear (goggles or face shield)
- Respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is highly toxic to fresh water fish and aquatic invertebrates. Do not contaminate water when disposing of equipment wash waters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulations.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forest, nurseries and green houses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE), restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during this restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

Coveralls over long-sleeved shirt, long pants

Shoes plus socks

Chemical-resistant gloves such as butyl rubber or nitrile rubber

Face sealing goggles, unless a full-face respirator is worn.

Respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R. P. or HE prefilter.

PRODUCT INFORMATION

This product is a plant growth regulator used as an aerosol fog to enhance the dormancy of [seed] potatoes [(and other root and tuber crops, bulb crops, and ornamental flowering bulbs)] [prior to germination][or][during storage phase].

RESTRICTIONS

Do not apply this product to potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) in the field.

Do not allow vapors to come in contact with storage areas used for seed potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) within 30 days of their planting.

PRECAUTIONS

This product may be applied any time after the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) are placed into the storage area.

This product is a short term dormancy enhancer which should not adversely affect eventual germination of seed potatoes (or other crops) held for future planting.

For seed potatoes (or other sprouting root, tuber and bulb crops), allow 60 days elapse before using a treated storage area as a temporary holding area. Air system components (including ducts) and building must be thoroughly ventilated before area is used for storage of seed potatoes (or other sprouting root, tuber and bulb crops) to prevent dormancy effects.

This product is for use on [sprouting root and tuber crops: beet, carrot, cassava, dasheen (taro), ginger, ginseng, horseradish, parsnip, potato, sweet potato, turnip, yam] [sprouting bulb crops; garlic, leek, onion, shallot] [and] [sprouting ornamentals; flower bulbs].

FORCED AIR DISTRIBUTION METHOD

1. Set up aerosol fogging equipment to provide optimum distribution of aerosol fog in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
2. During the application, run fans to aid disbursement of fog, but it is not required.
3. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).

TREATMENT OF STORAGE AREAS THAT DO NOT HAVE RECIRCULATING AIR SYSTEMS

These storage areas are more difficult to treat. Additional steps must be taken to treat these storage areas.

1. Set up aerosol fogging equipment to provide optimum distribution of aerosol fog in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
2. Completely close off the area to be treated. This may include vent doors in the attic and walk doors around the perimeter. The large truck doors may need to be sealed to prevent excess leakage.
3. Begin the treatment by following the listed steps:
 - a. Start the aerosol fogging equipment.
 - b. Adjust the location of the aerosol fog equipment so all the storage area receives an equal amount of aerosol fog. It may be necessary to move the aerosol fog generator during the application or make the application in multiple phases. For reentry into treated areas during application and prior to ventilation or settling of the aerosol fog, see the AGRICULTURAL USE REQUIREMENT section.
4. Wait at least 12 hours before fresh air is introduced into the storage area, then return the storage area to "normal" operation.
5. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops or bulb crops, or ornamental flowering bulbs).

TREATMENT in SMALL CONTAINER

1. Set up application equipment to provide optimum distribution of applicator in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
2. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops or bulb crops, or ornamental flowering bulbs).

APPLICATION TIMING AND RATES

This product may be applied any time after the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) are placed into the storage area.

1. Apply at rates of up to 1 pound of active ingredient per 50,000 lbs. (500 cwt), which is equivalent to 20 ppm on a product to crop basis or 1 gallon per 4,000 cwt.
2. While potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) may be retreated as necessary for effective control, do not exceed the maximum application of 80 ppm during the storage season.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Keep out of reach of children and animals. Store in closed, original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of at an approved waste disposal facility.

[Metal Containers less than 5 Gallons.]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into formulating equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over formulating equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. If rinsate cannot be used, follow pesticide disposal instructions. If not triples rinsed or pressure rinsed (or equivalent), these containers may be hazardous waste and must be disposed in accordance with local, state and federal regulations. DO NOT cut or weld metal containers. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures allowed by state and local authorities.

[Metal Containers greater than 5 Gallons.]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into formulating equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over formulating equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. If rinsate cannot be used, follow pesticide disposal instructions. If not triples rinsed or pressure rinsed (or equivalent), these containers may be hazardous waste and must be disposed in accordance with local, state and federal regulations. DO NOT cut or weld metal containers. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures allowed by state and local authorities.

Batch Code: _____

WARRANTY DISCLAIMER AND NOTICE

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Aceto Agricultural Chemicals Corporation. To the extent consistent with applicable law, all such risks shall be

assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, ACETO AGRICULTURAL CHEMICALS CORPORATION MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Aceto Agricultural Chemicals Corporation is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, ACETO AGRICULTURAL CHEMICALS CORPORATION DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT ACETO AGRICULTURAL CHEMICALS CORPORATION'S ELECTION, THE REPLACEMENT OF PRODUCT.

Batch Code: _____

CHEMTREC is a registered trademark of the American Chemical Society.

All trademarks are proprietary of their respective owners.

Made in China [packaged in USA].

[Active ingredient made [and formulated] in [Japan][China], [formulated in USA] [and] [package in USA]].

DMN EUP

Plant Growth Regulator

For use on (Potato) (Seed Potato) (Root, Tuber and Bulb (Crop)) as
Dormancy Enhancer

ACTIVE INGREDIENT:	% w/w
1,4-dimethylnaphthalene:*	97.64%
OTHER INGREDIENTS:	2.36%
TOTAL	100.0%

*Contains 8.3 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL CHEMTREC TOLL FREE 1-800-424-9300 or 1-703-527-3887.	

EPA Reg. No. 2749-XXX
EPA Est. No. XXXXXX-XX-XXX

MANUFACTURED FOR:
Aceto Agricultural Chemicals Corporation
4 Tri Harbor Court
Port Washington, NY 11050

See [attached][enclosed] [inside] [outside carton] [booklet] for [First Aid,] [additional] Precautionary Statements and Directions for Use.

NET CONTENTS: X gallons

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING. Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, use tobacco or using the toilet. Remove and wash contaminated clothing before uses.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as butyl rubber or nitrile rubber
- Shoes plus socks
- Protective eyewear (goggles or face shield)
- Respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is highly toxic to fresh water fish and aquatic invertebrates. Do not contaminate water when disposing of equipment wash waters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulations.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forest, nurseries and green houses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE), restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during this restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

Coveralls over long-sleeved shirt, long pants

Shoes plus socks

Chemical-resistant gloves such as butyl rubber or nitrile rubber

Face sealing goggles, unless a full-face respirator is worn.

Respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R. P. or HE prefilter.

PRODUCT INFORMATION

This product is a plant growth regulator used as an aerosol fog to enhance the dormancy of [seed] potatoes [(and other root and tuber crops, bulb crops, and ornamental flowering bulbs)] [prior to germination][or][during storage phase].

RESTRICTIONS

Do not apply this product to potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) in the field.

Do not allow vapors to come in contact with storage areas used for seed potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) within 30 days of their planting.

PRECAUTIONS

This product may be applied any time after the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) are placed into the storage area.

This product is a short term dormancy enhancer which should not adversely affect eventual germination of seed potatoes (or other crops) held for future planting.

For seed potatoes (or other sprouting root, tuber and bulb crops), allow 60 days elapse before using a treated storage area as a temporary holding area. Air system components (including ducts) and building must be thoroughly ventilated before area is used for storage of seed potatoes (or other sprouting root, tuber and bulb crops) to prevent dormancy effects.

This product is for use on [sprouting root and tuber crops: beet, carrot, cassava, dasheen (taro), ginger, ginseng, horseradish, parsnip, potato, sweet potato, turnip, yam] [sprouting bulb crops; garlic, leek, onion, shallot] [and] [sprouting ornamentals; flower bulbs].

FORCED AIR DISTRIBUTION METHOD

1. Set up aerosol fogging equipment to provide optimum distribution of aerosol fog in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
2. During the application, run fans to aid disbursement of fog, but it is not required.
3. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).

TREATMENT OF STORAGE AREAS THAT DO NOT HAVE RECIRCULATING AIR SYSTEMS

These storage areas are more difficult to treat. Additional steps must be taken to treat these storage areas.

1. Set up aerosol fogging equipment to provide optimum distribution of aerosol fog in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
2. Completely close off the area to be treated. This may include vent doors in the attic and walk doors around the perimeter. The large truck doors may need to be sealed to prevent excess leakage.
3. Begin the treatment by following the listed steps:
 - a. Start the aerosol fogging equipment.
 - b. Adjust the location of the aerosol fog equipment so all the storage area receives an equal amount of aerosol fog. It may be necessary to move the aerosol fog generator during the application or make the application in multiple phases. For reentry into treated areas during application and prior to ventilation or settling of the aerosol fog, see the AGRICULTURAL USE REQUIREMENT section.
4. Wait at least 12 hours before fresh air is introduced into the storage area, then return the storage area to "normal" operation.
5. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops or bulb crops, or ornamental flowering bulbs).

TREATMENT in SMALL CONTAINER

1. Set up application equipment to provide optimum distribution of applicator in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
2. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops or bulb crops, or ornamental flowering bulbs).

APPLICATION TIMING AND RATES

This product may be applied any time after the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) are placed into the storage area.

1. Apply at rates of up to 1 pound of active ingredient per 50,000 lbs. (500 cwt), which is equivalent to 20 ppm on a product to crop basis or 1 gallon per 4,000 cwt.
2. While potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) may be retreated as necessary for effective control, do not exceed the maximum application of 80 ppm during the storage season.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Keep out of reach of children and animals. Store in closed, original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of at an approved waste disposal facility.

[Metal Containers less than 5 Gallons.]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into formulating equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over formulating equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. If rinsate cannot be used, follow pesticide disposal instructions. If not triples rinsed or pressure rinsed (or equivalent), these containers may be hazardous waste and must be disposed in accordance with local, state and federal regulations. DO NOT cut or weld metal containers. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures allowed by state and local authorities.

[Metal Containers greater than 5 Gallons.]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into formulating equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into formulating equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over formulating equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. If rinsate cannot be used, follow pesticide disposal instructions. If not triples rinsed or pressure rinsed (or equivalent), these containers may be hazardous waste and must be disposed in accordance with local, state and federal regulations. DO NOT cut or weld metal containers. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures allowed by state and local authorities.

Batch Code: _____

WARRANTY DISCLAIMER AND NOTICE

IMPORTANT: READ BEFORE USE

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By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Aceto Agricultural Chemicals Corporation. To the extent consistent with applicable law, all such risks shall be

assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, ACETO AGRICULTURAL CHEMICALS CORPORATION MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Aceto Agricultural Chemicals Corporation is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, ACETO AGRICULTURAL CHEMICALS CORPORATION DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT ACETO AGRICULTURAL CHEMICALS CORPORATION'S ELECTION, THE REPLACEMENT OF PRODUCT.

Batch Code: _____

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All trademarks are proprietary of their respective owners.

Made in China [packaged in USA].

[Active ingredient made [and formulated] in [Japan][China], [formulated in USA] [and] [package in USA]].

DMN EUP

Plant Growth Regulator

For use on (Potato) (Seed Potato) (Root, Tuber and Bulb (Crop)) as
Dormancy Enhancer

ACTIVE INGREDIENT:	% w/w
1,4-dimethylnaphthalene:*	97.64%
OTHER INGREDIENTS:	2.36%
TOTAL	100.0%

*Contains 8.3 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL CHEMTREC TOLL FREE 1-800-424-9300 or 1-703-527-3887.	

EPA Reg. No. 2749-XXX
EPA Est. No. XXXXXX-XX-XXX

MANUFACTURED FOR:
Aceto Agricultural Chemicals Corporation
4 Tri Harbor Court
Port Washington, NY 11050

See [attached][enclosed] [inside] [outside carton] [booklet] for [First Aid,] [additional] Precautionary Statements and Directions for Use.

NET CONTENTS: X gallons

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING. Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, use tobacco or using the toilet. Remove and wash contaminated clothing before uses.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as butyl rubber or nitrile rubber
- Shoes plus socks
- Protective eyewear (goggles or face shield)
- Respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is highly toxic to fresh water fish and aquatic invertebrates. Do not contaminate water when disposing of equipment wash waters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe consult the State or Tribal agency responsible for pesticide regulations.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forest, nurseries and green houses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE), restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during this restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

Coveralls over long-sleeved shirt, long pants

Shoes plus socks

Chemical-resistant gloves such as butyl rubber or nitrile rubber

Face sealing goggles, unless a full-face respirator is worn.

Respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides

(MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R. P. or HE prefilter.

PRODUCT INFORMATION

This product is a plant growth regulator used as an aerosol fog to enhance the dormancy of [seed] potatoes [(and other root and tuber crops, bulb crops, and ornamental flowering bulbs)] [prior to germination][or][during storage phase].

RESTRICTIONS

Do not apply this product to potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) in the field.

Do not allow vapors to come in contact with storage areas used for seed potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) within 30 days of their planting.

PRECAUTIONS

This product may be applied any time after the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) are placed into the storage area.

This product is a short term dormancy enhancer which should not adversely affect eventual germination of seed potatoes (or other crops) held for future planting.

For seed potatoes (or other sprouting root, tuber and bulb crops), allow 60 days elapse before using a treated storage area as a temporary holding area. Air system components (including ducts) and building must be thoroughly ventilated before area is used for storage of seed potatoes (or other sprouting root, tuber and bulb crops) to prevent dormancy effects.

This product is for use on [sprouting root and tuber crops: beet, carrot, cassava, dasheen (taro), ginger, ginseng, horseradish, parsnip, potato, sweet potato, turnip, yam] [sprouting bulb crops; garlic, leek, onion, shallot] [and] [sprouting ornamentals; flower bulbs].

FORCED AIR DISTRIBUTION METHOD

1. Set up aerosol fogging equipment to provide optimum distribution of aerosol fog in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
2. During the application, run fans to aid disbursement of fog, but it is not required.
3. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).

TREATMENT OF STORAGE AREAS THAT DO NOT HAVE RECIRCULATING AIR SYSTEMS

These storage areas are more difficult to treat. Additional steps must be taken to treat these storage areas.

1. Set up aerosol fogging equipment to provide optimum distribution of aerosol fog in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
2. Completely close off the area to be treated. This may include vent doors in the attic and walk doors around the perimeter. The large truck doors may need to be sealed to prevent excess leakage.
3. Begin the treatment by following the listed steps:
 - a. Start the aerosol fogging equipment.
 - b. Adjust the location of the aerosol fog equipment so all the storage area receives an equal amount of aerosol fog. It may be necessary to move the aerosol fog generator during the application or make the application in multiple phases. For reentry into treated areas during application and prior to ventilation or settling of the aerosol fog, see the AGRICULTURAL USE REQUIREMENT section.
4. Wait at least 12 hours before fresh air is introduced into the storage area, then return the storage area to "normal" operation.
5. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops or bulb crops, or ornamental flowering bulbs).

TREATMENT in SMALL CONTAINER

1. Set up application equipment to provide optimum distribution of applicator in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
2. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops or bulb crops, or ornamental flowering bulbs).

APPLICATION TIMING AND RATES

This product may be applied any time after the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) are placed into the storage area.

1. Apply at rates of up to 1 pound of active ingredient per 50,000 lbs. (500 cwt), which is equivalent to 20 ppm on a product to crop basis or 1 gallon per 4,000 cwt.
2. While potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) may be retreated as necessary for effective control, do not exceed the maximum application of 80 ppm during the storage season.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Keep out of reach of children and animals. Store in closed, original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of at an approved waste disposal facility.

[Metal Containers less than 5 Gallons.]

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assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, ACETO AGRICULTURAL CHEMICALS CORPORATION MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Aceto Agricultural Chemicals Corporation is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, ACETO AGRICULTURAL CHEMICALS CORPORATION DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT ACETO AGRICULTURAL CHEMICALS CORPORATION'S ELECTION, THE REPLACEMENT OF PRODUCT.

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All trademarks are proprietary of their respective owners.

Made in China [packaged in USA].

[Active ingredient made [and formulated] in [Japan][China], [formulated in USA] [and] [package in USA]].

DMN EUP

Plant Growth Regulator

For use on (Potato) (Seed Potato) (Root, Tuber and Bulb (Crop)) as
Dormancy Enhancer

ACTIVE INGREDIENT:	% w/w
1,4-dimethylnaphthalene:*	97.64%
OTHER INGREDIENTS:	2.36%
TOTAL	100.0%

*Contains 8.3 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL CHEMTREC TOLL FREE 1-800-424-9300 or 1-703-527-3887.	

EPA Reg. No. 2749-XXX
EPA Est. No. XXXXXX-XX-XXX

MANUFACTURED FOR:
Aceto Agricultural Chemicals Corporation
4 Tri Harbor Court
Port Washington, NY 11050

See [attached][enclosed] [inside] [outside carton] [booklet] for [First Aid.] [additional] Precautionary Statements and Directions for Use.

NET CONTENTS: X gallons

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING. Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, use tobacco or using the toilet. Remove and wash contaminated clothing before uses.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as butyl rubber or nitrile rubber
- Shoes plus socks
- Protective eyewear (goggles or face shield)
- Respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is highly toxic to fresh water fish and aquatic invertebrates. Do not contaminate water when disposing of equipment wash waters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulations.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forest, nurseries and green houses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE), restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during this restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

Coveralls over long-sleeved shirt, long pants

Shoes plus socks

Chemical-resistant gloves such as butyl rubber or nitrile rubber

Face sealing goggles, unless a full-face respirator is worn.

Respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R. P. or HE prefilter.

PRODUCT INFORMATION

This product is a plant growth regulator used as an aerosol fog to enhance the dormancy of [seed] potatoes [(and other root and tuber crops, bulb crops, and ornamental flowering bulbs)] [prior to germination][or][during storage phase].

RESTRICTIONS

Do not apply this product to potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) in the field.

Do not allow vapors to come in contact with storage areas used for seed potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) within 30 days of their planting.

PRECAUTIONS

This product may be applied any time after the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) are placed into the storage area.

This product is a short term dormancy enhancer which should not adversely affect eventual germination of seed potatoes (or other crops) held for future planting.

For seed potatoes (or other sprouting root, tuber and bulb crops), allow 60 days elapse before using a treated storage area as a temporary holding area. Air system components (including ducts) and building must be thoroughly ventilated before area is used for storage of seed potatoes (or other sprouting root, tuber and bulb crops) to prevent dormancy effects.

This product is for use on [sprouting root and tuber crops: beet, carrot, cassava, dasheen (taro), ginger, ginseng, horseradish, parsnip, potato, sweet potato, turnip, yam] [sprouting bulb crops; garlic, leek, onion, shallot] [and] [sprouting ornamentals; flower bulbs].

FORCED AIR DISTRIBUTION METHOD

1. Set up aerosol fogging equipment to provide optimum distribution of aerosol fog in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
2. During the application, run fans to aid disbursement of fog, but it is not required.
3. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).

TREATMENT OF STORAGE AREAS THAT DO NOT HAVE RECIRCULATING AIR SYSTEMS

These storage areas are more difficult to treat. Additional steps must be taken to treat these storage areas.

1. Set up aerosol fogging equipment to provide optimum distribution of aerosol fog in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
2. Completely close off the area to be treated. This may include vent doors in the attic and walk doors around the perimeter. The large truck doors may need to be sealed to prevent excess leakage.
3. Begin the treatment by following the listed steps:
 - a. Start the aerosol fogging equipment.
 - b. Adjust the location of the aerosol fog equipment so all the storage area receives an equal amount of aerosol fog. It may be necessary to move the aerosol fog generator during the application or make the application in multiple phases. For reentry into treated areas during application and prior to ventilation or settling of the aerosol fog, see the AGRICULTURAL USE REQUIREMENT section.
4. Wait at least 12 hours before fresh air is introduced into the storage area, then return the storage area to "normal" operation.
5. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops or bulb crops, or ornamental flowering bulbs).

TREATMENT in SMALL CONTAINER

1. Set up application equipment to provide optimum distribution of applicator in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
2. For optimum effect, keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops or bulb crops, or ornamental flowering bulbs).

APPLICATION TIMING AND RATES

This product may be applied any time after the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) are placed into the storage area.

1. Apply at rates of up to 1 pound of active ingredient per 50,000 lbs. (500 cwt), which is equivalent to 20 ppm on a product to crop basis or 1 gallon per 4,000 cwt.
2. While potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) may be retreated as necessary for effective control, do not exceed the maximum application of 80 ppm during the storage season.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Keep out of reach of children and animals. Store in closed, original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of at an approved waste disposal facility.

[Metal Containers less than 5 Gallons.]

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